### (1) GENERAL INFORMATIONEN

- (i) APPLICANTS: Boon-Falleur, Thierry; Van der Bruggen, Thierry; Van den Eynde, Benoît; Van Pel, Aline; De Plaen, Etienne; Lurquin, Christophe; Chomez, Patrick; Traversari, Catia
- (ii) TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor Rejection Antigens and Uses Thereof
- (iii) NUMBER OF SEQUENCES: 26
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Fulbright & Jaworski LLP
  - (B) STREET: 666 Fifth Avenue
  - (C) CITY: New York City
  - (D) STATE: New York
  - (F) ZIP: 10103
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
  - (B) COMPUTER: IBM
  - (C) OPERATING SYSTEM: PC-DOS
  - (D) SOFTWARE: Wordperfect
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: \ 08/819,669
  - (B) FILING DATE: 17-March-1997
  - (C) CLASSIFICATION: 435
- (vii) PRIOR APPLIATION DATA:
  - (A) APPLICATION NUMBER: 08/142,368
  - (B) FILING DATE: 02-MAY 1994
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: \ PCT/US92/04354
  - (B) FILING DATE: 22-MAY-1992
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: \07/807,043
  - (B) FILING DATE: 12-DECEMBER-1991
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: \$7/764,36
  - (B) FILING DATE: 23-SEPTEMBER-1991
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: 07/728,838
  - (b) FILING DATE: 9-JULY-1991
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: 07Å705,702

576670.1



(B) FILING DATE: 23-May-1991

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Hanson, Norman D.
- (B) REGISTRATION NUMBER: 30,946
- (C) REFERENCE/DOCKET NUMBER: LUD 5253.5-US
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: (212)318-3168
  - (B) TELEFAX: (212)752-5958
- (2) INFORMATION FOR SEQUENCE ID NO: 1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 462 base pairs
  - (B) TYPE: nucleic acid (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

ACCACAGGAG	AATGAAAAGA	ACCCGGGACT	CCCAAAGACG	CTAGATGTGT	GAAGATCCTG	60
ATCACTCATT	GGGTGTCTGA	GTTCTGCGAT	ATTCATCCCT	CAGCCAATGA	GCTTACTGTT	120
CTCGTGGGGG	GTTTGTGAGC	CTTGGGTAGG	AAGTTTTGCA	AGTTCCGCCT	ACAGCTCTAG	180
CTTGTGAATT	TGTACCCTTT	CACGTAAAAA	AGTAGTCCAG	AGTTTACTAC	ACCCTCCCTC	240
CCCCCTCCCA	CCTCGTGCTG	TGCTGAGTTT	AGAAGTCTTC	CTTATAGAAG	TCTTCCGTAT	300
AGAACTCTTC	CGGAGGAAGG	AGGGAGGACC	CCCCCCTTT	GCTCTCCCAG	CATGCATTGT	360
GTCAACGCCA	TTGCACTGAG	CTGGTCGAAG	AAGTAAGCCG	CTAGCTTGCG	ACTCTACTCT	420
TATCTTAACT	TAGCTCGGCT	TCCTGCTGGT	ACCCTTTGTG	CC		462

- (2) INFORMATION FOR SEQUENCE ID NO: 2:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 675 base pairs
    - (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

	TCT															4	18
Met	Ser	Asp	Asn	Lys	Lys	Pro	Asp	Lys	Ala	His	Ser	Gly	Ser	Gly	Gly		
		_		<sup>-</sup> 5	_				10					15			
	GGT															9	96
Asp	Gly	Asp	Gly	Asn	Arg	Cys	Asn	Leu	Leu	His	Arg	Tyr	Ser	Leu	Glu		
_	-	-	20			_		25					30				
GAA	ATT	CTG	CCT	TAT	CTA	GGG	TGG	CTG	GTC	TTC	GCT	GTT	GTC	ACA	ACA	14	14

576670.1

Glu	Ile	Leu 35	Pro	Tyr	Leu	Gly	Trp 40	Leu	Val	Phe	Ala	Val 45	Val	Thr	Thr	
				CTC Leu												192
				GTG Val												240
TCT				GAT Asp 85											TAC	288
				GAC Asp										GAT		336
			GAA	TTG Leu				ATG					GAA			384
		GAA		ATG Met			GAA					GCT				432
	GCT			AAC Asn		GCC					CAT					480
AAT				TGT Cys 165	AGG					TTC					TTC	528
				CCA Pro					GAA					AGG		576
			GAT	GAA Glu				ATG					GAA			624
		GAG		GAA Glu			ATG				GAT					672
TAG																675

## (2) INFORMATION FOR SEQUENCE ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 228 base pairs
  - (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: genomic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GCATGCAGTT	GCAAAGCCCA	GAAGAAAGAA	ATGGACAGCG	GAAGAAGTGG	TTGTTTTTTT	60
TTCCCCTTCA	TTAATTTTCT	AGTTTTTAGT	AATCCAGAAA	ATTTGATTTT	GTTCTAAAGT	120

TCATTATGCA AAGATGTCAC CAACAGACTT CTGACTGCAT GGTGAACTTT CATATGATAC 180 ATAGGATTAC ACTTGTACCT GTTAAAAATA AAAGTTTGAC TTGCATAC 228



# (2) INFORMATION FOR SEQUENCE ID NO: 4:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1365 base pairs
  - (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: genomic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT	50
GAAGATCCTG ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT	100
CAGCCAATGA GCTTACTGTT CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG	150
AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG CTTGTGAATT TGTACCCTTT	200
CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC CCCCCTCCCA	250
CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT	300
AGAACTCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTT GCTCTCCCAG	350
CATGCATTGT GTCAACGCCA TTGCACTGAG CTGGTCGAAG AAGTAAGCCG	400
CTAGCTTGCG ACTCTACTCT TATCTTAACT TAGCTCGGCT TCCTGCTGGT	450
ACCCTTTGTG CC	462
ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA	504
GGT GGT GAC GGT GAT GGG AAT AGG TGC AAT TTA TTG CAC CGG	546
TAC TCC CTG GAA GAA ATT CTG CCT TAT CTA GGG TGG CTG GTC	588
TTC GCT GTT GTC ACA ACA AGT TTT CTG GCG CTC CAG ATG TTC	630
ATA GAC GCC CTT TAT GAG GAG CAG TAT GAA AGG GAT GTG GCC	672
TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC TCT GTC GAT GAG	714
GAT GAA GAC GAT GAG GAT GAG GAT GAC TAC TAC GAC GAC	756
GAG GAC GAC GAC GAT GCC TTC TAT GAT GAT GAG GAT GAT	798
GAG GAA GAA TTG GAG AAC CTG ATG GAT GAA TCA GAA	840
GAT GAG GCC GAA GAA GAG ATG AGC GTG GAA ATG GGT GCC GGA	882
GCT GAG GAA ATG GGT GCT GGC GCT AAC TGT GCC TGT GTT CCT	924
GGC CAT CAT TTA AGG AAG AAT GAA GTG AAG TGT AGG ATG AT	966
TAT TTC TTC CAC GAC CCT AAT TTC CTG GTG TCT ATA CCA GTG	1008
AAC CCT AAG GAA CAA ATG GAG TGT AGG TGT GAA AAT GCT GAT	1050
GAA GAG GTT GCA ATG GAA GAA GAA GAA GAA GAG GAG	1092
GAG GAG GAA GAG GAA ATG GGA AAC CCG GAT GGC TTC TCA CCT	1134
TAG	1137
GCATGCAGTT GCAAAGCCCA GAAGAAGAA ATGGACAGCG GAAGAAGTGG	1187
TTGTTTTTTT TTCCCCTTCA TTAATTTTCT AGTTTTTAGT AATCCAGAAA	1237
ATTTGATTTT GTTCTAAAGT TCATTATGCA AAGATGTCAC CAACAGACTT	1287
CTGACTGCAT GGTGAACTTT CATATGATAC ATAGGATTAC ACTTGTACCT	1337
GTTAAAAATA AAAGTTTGAC TTGCATAC	1365

#### (2) INFORMATION FOR SEQUENCE ID NO: 5:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4698 base pairs
  - (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: genomic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

	3 00000000 000		~~~~~	
ACCACAGGAG AATGAAAAGA				50
GAAGATCCTG ATCACTCATT				100
CAGCCAATGA GCTTACTGTT	CTCGTGGGGG GTT	IGTGAGC	CTTGGGTAGG	150
AAGTTTTGCA AGTTCCGCCT	ACAGCTCTAG CTT	GTGAATT	TGTACCCTTT	200
CACGTAAAAA AGTAGTCCAG	AGTTTACTAC ACC	CTCCCTC	CCCCCTCCCA	250
	AGAAGTCTTC CTT		TCTTCCGTAT	300
AGAACTCTTC CGGAGGAAGG				350
CATGCATTGT GTCAACGCCA				
				400
CTAGCTTGCG ACTCTACTCT	TATCTTAACT TAG	CTCGGCT	TCCTGCTGGT	450
ACCCTTTGTG CC				462
ATG TCT GAT AAC AAG A			AGT GGC TCA	504
GGT GGT GAC GGT GAT G	GG AAT AGG TGC A	ATT TAA	TTG CAC CGG	546
TAC TCC CTG GAA GAA A	TT CTG CCT TAT (	CTA GGG	TGG CTG GTC	588
TTC GCT GTT GTC ACA A	CA AGT TTT CTG (	GCG CTC	CAG ATG TTC	630
	AG GAG CAG TAT (		GAT GTG GCC	672
TGG ATA GCC AGG CAA A			GTC GAT GAG	714
GAT GAA GAC GAT GAG G				. — –
				756
		GAT GAT		798
	AG AAC CTG ATG (			840
GAT GAG GCC GAA GAA G			GGT GCC GGA	882
GCT GAG GAA ATG GGT G	CT GGC GCT AAC :	IGT GCC	T	916
GTGAGTAACC CGTGGTCTTT	ACTCTAGATT CAG	GTGGGGT	GCATTCTTTA	966
CTCTTGCCCA CATCTGTAGT	AAAGACCACA TTT	IGGTTGG	GGGTCATTGC	1016
TGGAGCCATT CCTGGCTCTC	CTGTCCACGC CTAT	TCCCCGC	TCCTCCCATC	1066
CCCCACTCCT TGCTCCGCTC			CCTCTGGAGC	1116
TTCAGTCCAT CCTGCTCTGC	TCCCTTTCCC CTT			1166
TCCCCTCGG CTCAACTTTT	CGTGCCTTCT GCT			
				1216
	CCTCTCCCGA AACO		TTCCTGTTCC	1266
CCTTTTCGCG CCTTTTCTTT			TATTTACCTT	1316
TCACCAGCTT TGCTCTCCCT			CCTTTTCTTT	1366
TCCTGCTCCC CTCCCCCTCC	CCTCCCTGTT TAC	CCTTCAC	CGCTTTTCCT	1416
CTACCTGCTT CCCTCCCCCT	TGCTGCTCCC TCC	CTATTTG	CATTTTCGGG	1466
TGCTCCTCCC TCCCCCTCCC	CCTCCCTCCC TAT	ITGCATT	TTCGGGTGCT	1516
CCTCCCTCCC CCTCCCCAGG	CCTTTTTTTT TTT	$\Gamma T T T T T T T$	TTTTTTTTTT	1566
TTGGTTTTTC GAGACAGGGT	TTCTCTTTGT ATC	CCTGGCT	GTCCTGGCAC	1616
TCACTCTGTA GACCAGGCTG	GCCTCAAACT CAGA		CCTGCCTCTG	1666
	AAGGCTTGCA CCAC			1716
GCCTTTCTTT TTTCTCCTCT				1766
AACTCCCCTT TTGGCACCTT				1816
TTCCCTTCCG GCACCCTTCC				1866
CCTCCCCCTC TTTGCTCGAC				1916
GCCCCGTTCC CCTTTTTTGT				1966
AGCTCACCTT TTTGTTTGTT				2016
TTTTTTTTT GCACCTTGTT	TTCCAAGATC CCC	CTCCCCC	TCCGGCTTCC	2066
CCTCTGTGTG CCTTTCCTGT	TCCCTCCCC TCG	CTGGCTC	CCCCTCCCTT	2116
TCTGCCTTTC CTGTCCCTGC	TCCCTTCTCT GCTA	AACCTTT	TAATGCCTTT	2166
CTTTTCTAGA CTCCCCCCTC				2216
CCTGACCCTG CTCCCCTTCC				2266
CCTTTCTCCA GCCTGTCACC				2316
TCCTGCTTCC TTTACCCCTT				2366
GACTTCCTCT CCAGCCGCCC				2416
CTCTCTGTCC ATCACTTCCC	CCTAGTTTCA CTT	CCTTTC .	ACTCTCCCCT	2466

ATGTGTCTCT CTTCCTATCT ATCCCTTCCT TTCTGTCCC	C TCTCCTCTGT 2516
CCTGCTTCTT TACCCTGCCT CTCCCATTGC CCTCTTACC	— — — — — — — — — — — — — — — — — — —
TCCATGTCCC CTCTCAATTC CCTGTCCCAT TGTGCTCCC	
ATTTCCCTCT TTCTCCCTTA GCCTCTTCTT CCTCTTCTC	<del> </del>
TTCCCTTTGC TTCTCCCTCC TCCTTTCCCC TTCCCCTA	
TACTTGATCT TCTCTCCTCT CCACATACCC TTTTTCCTT	T CCACCCTGCC 2816
CTTTGTCCCC AGACCCTACA GTATCCTGTG CACAGGAAC	T GGGAGGTGCC 2866
ATCAACAACA AGGAGGCAAG AAACAGAGCA AAATCCCAA	A ATCAGCAGGA 2916
AAGGCTGGAT GAAAATAAGG CCAGGTTCTG AGGACAGCT	G GAATCTAGCC 2966
AAGTGGCTCC TATAACCCTA AGTACCAAGG GAGAAAGTG	A TGGTGAAGTT 3016
CTTGATCCTT GCTGCTTCTT TTACATATGT TGGCACATO	
CAGGCCATGC TCCATGCTTG GCGCTTGCTC AGCGTGGT	
GAATCTGAAA ACTAGGGGCC AGTGGTTTGT TTTGGGGA	
TAGTGATATT TCCCCCTAAA AATTATAACA AACAGATTO	
TCCTTCTACA GGTGAGAAGT GGAAAAATTG TCACTATGA	
GGCTAAAGAT ACTTGGAACC ATAGAAGCGT TGTTAAAA	
TTGCTAAAAT ATTCTTTCTC ACATATTCAT ATTCTCCAC	
GT GTT CCT GGC CAT CAT TTA AGG AAG AAT GA	
AGG ATG ATT TAT TTC TTC CAC GAC CCT AAT T	
ATA CCA GTG AAC CCT AAG GAA CAA ATG GAG TO	
AAT GCT GAT GAA GAG GTT GCA ATG GAA GAG GA	
GAG GAG GAG GAG GAA GAG GAA ATG GGA AA	
TTC TCA CCT TAG	3576
GCATGCAGGT ACTGGCTTCA CTAACCAACC ATTCCTAAC	
GCTAAGAGCA TCTTTTTAAA AAATATTATT GGTAAACTA	A ACAATTGTTA 3676
TCTTTTTACA TTAATAAGTA TTAAATTAAT CCAGTATAG	A GTTTTAAGAA 3726
CCCTAAGTTA AACAGAAGTC AATGATGTCT AGATGCCTC	T TCTTTAGATT 3776
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGAC	T CGGGAGTAGA 3826
GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAA	A TCGCATATTG 3876
TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACA	A AAATAAGTGT 3926
TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTA	T TATTTTGTCG 3976
TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGA	G ATGAAAATCT 4026
CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAC	
	A GATTTCTTAA 4126
	A TGAAAGCAGA 4176
	A GCAATAGGGA 4226
GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAAAG	
CAGTAGGTTA GTGAGGTTGA TATGATCAGA TTATGGACA	
ATAAATACTC TAACAGCTAA GGATCTCTGA GGGAAACAC	
ATTTTAGTTT CTCCTTGAGA AACAATGACA AGACATAAA	
AGTCAGGAGT GTATTCTAAT AAGTGTTGCT TATCTCTTA	
AGTTGCAAAG CCCAGAAGAA AGAAATGGAC AGCGGAAGA	
TTTTTTCCCC TTCATTAATT TTCTAGTTTT TAGTAATCO	
TTTTGTTCTA AAGTTCATTA TGCAAAGATG TCACCAACA	
GCATGGTGAA CTTTCATATG ATACATAGGA TTACACTTC	
AATAAAAGTT TGACTTGCAT AC	4698

- (2) INFORMATION FOR SEQUENCE ID NO: 6:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 9 amino acids
    - (B) TYPE: amino acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Leu Pro Tyr Leu Gly Trp Leu Val Phe

- (2) INFORMATION FOR SEQUENCE ID NO: 7:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2418 base pairs (B) TYPE: nucleic acid

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GGATCCAGGC	CCTGCCAGGA	AAAATATAAG	GGCCCTGCGT	GAGAACAGAG	50
GGGGTCATCC	ACTGCATGAG	AGTGGGGATG	TCACAGAGTC	CAGCCCACCC	100
TCCTGGTAGC	ACTGAGAAGC	CAGGGCTGTG	CTTGCGGTCT	GCACCCTGAG	150
GGCCCGTGGA	TTCCTCTTCC	TGGAGCTCCA	GGAACCAGGC	AGTGAGGCCT	200
TGGTCTGAGA	CAGTATCCTC	AGGTCACAGA	GCAGAGGATG	CACAGGGTGT	250
GCCAGCAGTG	AATGTTTGCC	CTGAATGCAC	ACCAAGGGCC	CCACCTGCCA	300
CAGGACACAT	AGGACTCCAC	AGAGTCTGGC	CTCACCTCCC	TACTGTCAGT	350
CCTGTAGAAT	CGACCTCTGC	TGGCCGGCTG	TACCCTGAGT	ACCCTCTCAC	400
TTCCTCCTTC	AGGTTTTCAG	GGGACAGGCC	AACCCAGAGG	ACAGGATTCC	450
CTGGAGGCCA	CAGAGGAGCA	CCAAGGAGAA	GATCTGTAAG	TAGGCCTTTG	500
TTAGAGTCTC	CAAGGTTCAG	TTCTCAGCTG	AGGCCTCTCA	CACACTCCCT	550
CTCTCCCCAG	GCCTGTGGGT	CTTCATTGCC	CAGCTCCTGC	CCACACTCCT	600
GCCTGCTGCC	CTGACGAGAG	TCATCATGTC	TCTTGAGCAG	AGGAGTCTGC	650
ACTGCAAGCC	TGAGGAAGCC	CTTGAGGCCC	AACAAGAGGC	CCTGGGCCTG	700
GTGTGTGTGC	AGGCTGCCAC	CTCCTCCTCC	TCTCCTCTGG	TCCTGGGCAC	750
CCTGGAGGAG	GTGCCCACTG	CTGGGTCAAC	AGATCCTCCC	CAGAGTCCTC	800
AGGGAGCCTC	CGCCTTTCCC	ACTACCATCA	ACTTCACTCG	ACAGAGGCAA	850
CCCAGTGAGG	GTTCCAGCAG	CCGTGAAGAG	GAGGGGCCAA	GCACCTCTTG	900
TATCCTGGAG	TCCTTGTTCC	GAGCAGTAAT	CACTAAGAAG	GTGGCTGATT	950
TGGTTGGTTT	TCTGCTCCTC	AAATATCGAG	CCAGGGAGCC	AGTCACAAAG	1000
GCAGAAATGC	TGGAGAGTGT	CATCAAAAAT	TACAAGCACT	GTTTTCCTGA	1050
GATCTTCGGC	AAAGCCTCTG	AGTCCTTGCA	GCTGGTCTTT	GGCATTGACG	1100
TGAAGGAAGC	AGACCCCACC	GGCCACTCCT	ATGTCCTTGT	CACCTGCCTA	1150
GGTCTCTCCT	ATGATGGCCT	GCTGGGTGAT	AATCAGATCA	TGCCCAAGAC	1200
AGGCTTCCTG	ATAATTGTCC	TGGTCATGAT	TGCAATGGAG	GGCGGCCATG	1250
CTCCTGAGGA	GGAAATCTGG	GAGGAGCTGA	GTGTGATGGA	GGTGTATGAT	1300
GGGAGGGAGC	ACAGTGCCTA	TGGGGAGCCC	AGGAAGCTGC	TCACCCAAGA	1350
TTTGGTGCAG	GAAAAGTACC	TGGAGTACGG	CAGGTGCCGG	ACAGTGATCC	1400
CGCACGCTAT	GAGTTCCTGT	GGGGTCCAAG	GGCCCTCGCT	GAAACCAGCT	1450

CCTTGAGTAT	GTGATCAAGG	TCAGTGCAAG	AGTTCGCTTT	1500
CCCTGCGTGA	AGCAGCTTTG	AGAGAGGAGG	AAGAGGGAGT	1550
GTTGCAGCCA	AGGCCAGTGG	GAGGGGGACT	GGGCCAGTGC	1600
GCCGCGTCCA	GCAGCTTCCC	CTGCCTCGTG	TGACATGAGG	1650
ACTCTGAAGA	GAGCGGTCAG	TGTTCTCAGT	AGTAGGTTTC	1700
GGTGACTTGG	AGATTTATCT	TTGTTCTCTT	TTGGAATTGT	1750
TTTTTTAAGG	GATGGTTGAA	TGAACTTCAG	CATCCAAGTT	1800
AGCAGTCACA	CAGTTCTGTG	TATATAGTTT	AAGGGTAAGA	1850
TTATTCAGAT	TGGGAAATCC	ATTCTATTTT	GTGAATTGGG	1900
CAGTGGAATA	AGTACTTAGA	AATGTGAAAA	ATGAGCAGTA	1950
GATAAAGAAC	TAAAGAAATT	AAGAGATAGT	CAATTCTTGC	2000
AGTCTATTCT	GTAAAATTTT	TAAAGATATA	TGCATACCTG	2050
GCTTCTTTGA	GAATGTAAGA	GAAATTAAAT	CTGAATAAAG	2100
GTTCACTGGC	TCTTTTCTTC	TCCATGCACT	GAGCATCTGC	2150
GCCCTGGGTT	AGTAGTGGAG	ATGCTAAGGT	AAGCCAGACT	2200
CATAGGGTCG	TAGAGTCTAG	GAGCTGCAGT	CACGTAATCG	2250
ATGTCCTCTA	AAGATGTAGG	GAAAAGTGAG	AGAGGGGTGA	2300
CTCCGGGTGA	GAGTGGTGGA	GTGTCAATGC	CCTGAGCTGG	2350
GCTTTGGGAA	ACTGCAGTTC	CTTCTGGGGG	AGCTGATTGT	2400
GGTGGATCC				2418
	CCCTGCGTGA GTTGCAGCCA GCCGCGTCCA ACTCTGAAGA GGTGACTTGG TTTTTTTAAGG AGCAGTCACA TTATTCAGAT CAGTGGAATA GATAAAGAAC AGTCTATTCT GCTTCTTTGA GTTCACTGGC GCCCTGGGTT CATAGGGTCG ATGTCCTCTA CTCCGGGTGA GCTTTGGGAA	CCCTGCGTGA AGCAGCTTTG GTTGCAGCCA AGGCCAGTGG GCCGCGTCCA GCAGCTTCCC ACTCTGAAGA GAGCGGTCAG GGTGACTTGG AGATTTATCT TTTTTTAAGG GATGGTTGAA AGCAGTCACA CAGTTCTGTG TTATTCAGAT TGGGAAATCC CAGTGGAATA AGTACTTAGA GATAAAGAAC TAAAGAAATT AGTCTATTCT GTAAAATTTT GCTTCTTTGA GAATGTAAGA GTTCACTGGC TCTTTTCTTC GCCCTGGGTT AGTAGTGGAG CATAGGGTCG TAGAGTCTAG ATGTCCTCTA AAGATGTAGG CTCCGGGTGA GAGTGGTGGA GCTTTGGGAA ACTGCAGTTC	CCCTGCGTGA AGCAGCTTTG AGAGAGGAGG GTTGCAGCCA AGGCCAGTGG GAGGGGGACT GCCGCGTCCA GCAGCTTCCC CTGCCTCGTG ACTCTGAAGA GAGCGGTCAG TGTTCTCAGT GGTGACTTGG AGATTTATCT TTGTTCTCTT TTTTTTAAGG GATGGTTGAA TGAACTTCAG AGCAGTCACA CAGTTCTGTG TATATAGTTT TTATTCAGAT TGGGAAATCC ATTCTATTTT CAGTGGAATA AGTACTTAGA AATGTGAAAA GATAAAGAAC TAAAGAAATT AAAGATATA GCTTCTTTGA GAATGTAAGA GAAATTAAAT GCTTCTTTGA GAATGTAAGA GAAATTAAAT GTTCACTGGC TCTTTTCTTC TCCATGCACT GCCCTGGGTT AGTAGTGGAG ATGCTAAGGT CATAGGGTCG TAGAGTCTAG GAGCTGCAGT ATGTCCTCTA AAGATGTAGG GAAAAGTGAG CTCCGGGTGA GAGTGGTGA GTGTCAATGC GCTTTGGGAA ACTGCAGTTC CTTCTGGGGG	CCCTGCGTGA AGCAGCTTTG AGAGAGGAGG AAGAGGGAGT GTTGCAGCCA AGGCCAGTGG GAGGGGGACT GGGCCAGTGC GCCGCGTCCA GCAGCTTCCC CTGCCTCGTG TGACATGAGG ACTCTGAAGA GAGCGGTCAG TGTTCTCAGT AGTAGGTTTC GGTGACTTGG AGATTTATCT TTGTTCTCTT TTGGAATTGT TTTTTTAAGG GATGGTTGAA TGAACTTCAG CATCCAAGTT AGCAGTCACA CAGTTCTGTG TATATAGTTT AAGGGTAAGA TTATTCAGAT TGGGAAATCC ATTCTATTTT GTGAATTGGG CAGTGGAATA AGTACTTAGA AATGTGAAAA ATGAGCAGTA GATAAAGAAATT AAGAGATATA TGCATACCTG GCTTCTTTGA GAATGTAAGA GAAATTAAAT CTGAATAAAG GTTCACTGGC TCTTTTCTTC TCCATGCACT GAGCATCTGC GCCCTGGGTT AGTAGTGAG ATGCTAAGGT AAGCAGCT CATAGGGTCG TAGAGTCTAG GAGCTGCAGT CACGTAATCG ATGTCCTCTA AAGATGTAGG GAAAATGAG AGGCGGTGA CTCCCGGGTGA GAGTGGTGGA GTGTCAATGC CCTGAGCTG GAGCTTGCG GCTTTGGAA ACTGCAGTC CCTGAGCTGC AGGCTGCAGT CACGTAATCG GAGCTGCAGT CACGTAATCG GAGCTGCAGT CACGTAATCG GCTCCGGGTGA GAGTGGTGGA GTGTCAATGC CCTGAGCTGG GCTTTGGGAA ACTGCAGTTC CTTCTGGGGG AGCTGATTGT

- (2) INFORMATION FOR SEQUENCE ID NO: 8:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 5724 base pairs
    - (B) TYPE: nucleic acid (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-1 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

CCCGGGGCAC	CACTGGCATC	CCTCCCCCTA	CCACCCCAA	TCCCTCCCTT	50
TACGCCACCC	ATCCAAACAT	CTTCACGCTC	ACCCCCAGCC	CAAGCCAGGC	100
AGAATCCGGT	TCCACCCCTG	CTCTCAACCC	AGGGAAGCCC	AGGTGCCCAG	150
ATGTGACGCC	ACTGACTTGA	GCATTAGTGG	TTAGAGAGAA	GCGAGGTTTT	200
CGGTCTGAGG	GGCGGCTTGA	GATCGGTGGA	GGGAAGCGGG	CCCAGCTCTG	250
TAAGGAGGCA	AGGTGACATG	CTGAGGGAGG	ACTGAGGACC	CACTTACCCC	300
AGATAGAGGA	CCCCAAATAA	TCCCTTCATG	CCAGTCCTGG	ACCATCTGGT	350
GGTGGACTTC	TCAGGCTGGG	CCACCCCAG	CCCCCTTGCT	GCTTAAACCA	400
CTGGGGACTC	GAAGTCAGAG	CTCCGTGTGA	TCAGGGAAGG	GCTGCTTAGG	450
AGAGGGCAGC	GTCCAGGCTC	TGCCAGACAT	CATGCTCAGG	ATTCTCAAGG	500
AGGGCTGAGG	GTCCCTAAGA	CCCCACTCCC	GTGACCCAAC	CCCCACTCCA	550
ATGCTCACTC	CCGTGACCCA	ACCCCCTCTT	CATTGTCATT	CCAACCCCCA	600
CCCCACATCC	CCCACCCCAT	CCCTCAACCC	TGATGCCCAT	CCGCCCAGCC	650
ATTCCACCCT	CACCCCCACC	CCCACCCCCA	CGCCCACTCC	CACCCCCACC	700
CAGGCAGGAT	CCGGTTCCCG	CCAGGAAACA	TCCGGGTGCC	CGGATGTGAC	750
GCCACTGACT	TGCGCATTGT	GGGGCAGAGA	GAAGCGAGGT	TTCCATTCTG	800
AGGGACGGCG	TAGAGTTCGG	CCGAAGGAAC	CTGACCCAGG	CTCTGTGAGG	850
AGGCAAGGTG	AGAGGCTGAG	GGAGGACTGA	GGACCCCGCC	ACTCCAAATA	900

GAGAGCCCCA	AATATTCCAG	CCCCGCCCTT	GCTGCCAGCC	CTGGCCCACC	950
CGCGGGAAGA	CGTCTCAGCC	TGGGCTGCCC	CCAGACCCCT	GCTCCAAAAG	1000
CCTTGAGAGA	CACCAGGTTC	TTCTCCCCAA	GCTCTGGAAT	CAGAGGTTGC	1050
TGTGACCAGG	GCAGGACTGG	TTAGGAGAGG	GCAGGGCACA	GGCTCTGCCA	1100
GGCATCAAGA	TCAGCACCCA	AGAGGGAGGG	CTGTGGGCCC	CCAAGACTGC	1150
ACTCCAATCC	CCACTCCCAC	CCCATTCGCA	TTCCCATTCC	CCACCCAACC	1200
CCCATCTCCT	CAGCTACACC	TCCACCCCCA	TCCCTACTCC	TACTCCGTCA	1250
CCTGACCACC	ACCCTCCAGC	CCCAGCACCA	GCCCCAACCC	TTCTGCCACC	1300
TCACCCTCAC	TGCCCCCAAC	CCCACCCTCA	TCTCTCTCAT	GTGCCCCACT	1350
CCCATCGCCT	CCCCCATTCT	GGCAGAATCC	GGTTTGCCCC	TGCTCTCAAC	1400
CCAGGGAAGC	CCTGGTAGGC	CCGATGTGAA	ACCACTGACT	TGAACCTCAC	1450
AGATCTGAGA	GAAGCCAGGT	TCATTTAATG	GTTCTGAGGG	GCGGCTTGAG	1500
ATCCACTGAG	GGGAGTGGTT	TTAGGCTCTG	TGAGGAGGCA	AGGTGAGATG	1550
CTGAGGGAGG	ACTGAGGAGG	CACACACCCC	AGGTAGATGG	CCCCAAAATG	1600
ATCCAGTACC	ACCCCTGCTG	CCAGCCCTGG	ACCACCCGGC	CAGGACAGAT	1650
GTCTCAGCTG	GACCACCCC	CGTCCCGTCC	CACTGCCACT	TAACCCACAG	1700
GGCAATCTGT	AGTCATAGCT	TATGTGACCG	GGGCAGGGTT	GGTCAGGAGA	1750
	AGGCATCAAG				1800
	GGAACTGAGG				1850
	CCACTCACAT				1900
	ATCCCTGCTG				1950
	GATCTTGACG				2000
	GGCCTCAGGG				2050
	AGAGGACCCA				2100
	CCACTTCTGG				2150
	GTGGGACCCA	and the second s			2200
	AGGGGACCTT				2250
	GGGCACGGTG				2300
	GGACAGAGCT				2350
_	GTTCCAGGAT				2400
	ATATCCCCGG				2450
	TTAGTAGCTC				2500
	ACTTGTACCA				2550
	GGGGTAAAGG				2600
	GCACAGGCGC				2650
	AATCCACACC				2700
	TGTGGCTTCT				2750
	CATTCTCAGA				2800
	AGACAGAGCG				2850
	GAGGACTGAG				2900
	ATCAGCCCTG				2950
	CCGAGGTCCT				3000
	CTTGGTCTGA				3050
	CTGCCAGGAG				3150
	TAATTCCAAT				3200
	GCACGTGTGG				3250
	GGATGTGAAC				3300
	CAGGCCCTGC				3350
	CATCCACTGC				3400
	GTAGCACTGA				3450
	GTGGATTCCT				3500
GGCCTTGGTC		TCCTCAGGTC			3550

GGTGTGCCAG CAGTGAATGT TTGCCCTGAA TGCACACCAA	GGGCCCCACC 3600
TGCCACAGGA CACATAGGAC TCCACAGAGT CTGGCCTCAC	CTCCCTACTG 3650
TCAGTCCTGT AGAATCGACC TCTGCTGGCC GGCTGTACCC	TGAGTACCCT 370
CTCACTTCCT CCTTCAGGTT TTCAGGGGAC AGGCCAACCC	AGAGGACAGG 3750
ATTCCCTGGA GGCCACAGAG GAGCACCAAG GAGAAGATCT	GTAAGTAGGC 380
CTTTGTTAGA GTCTCCAAGG TTCAGTTCTC AGCTGAGGCC	TCTCACACAC 3850
TCCCTCTCTC CCCAGGCCTG TGGGTCTTCA TTGCCCAGCT	CCTGCCCACA 3900
CTCCTGCCTG CTGCCCTGAC GAGAGTCATC	3930
ATG TCT CTT GAG CAG AGG AGT CTG CAC TGC AAG	CCT GAG GAA 397
GCC CTT GAG GCC CAA CAA GAG GCC CTG GGC CTG	GTG TGT GTG 401
CAG GCT GCC ACC TCC TCC TCT CCT CTG GTC	CTG GGC ACC 405
CTG GAG GAG GTG CCC ACT GCT GGG TCA ACA GAT	CCT CCC CAG 4098
AGT CCT CAG GGA GCC TCC GCC TTT CCC ACT ACC	ATC AAC TTC 414
ACT CGA CAG AGG CAA CCC AGT GAG GGT TCC AGC	AGC CGT GAA 418:
GAG GAG GGG CCA AGC ACC TCT TGT ATC CTG GAG	TCC TTG TTC 422
CGA GCA GTA ATC ACT AAG AAG GTG GCT GAT TTG	GTT GGT TTT 426
CTG CTC CTC AAA TAT CGA GCC AGG GAG CCA GTC	ACA AAG GCA 430
GAA ATG CTG GAG AGT GTC ATC AAA AAT TAC AAG	CAC TGT TTT 4350
CCT GAG ATC TTC GGC AAA GCC TCT GAG TCC TTG	CAG CTG GTC 439:
TTT GGC ATT GAC GTG AAG GAA GCA GAC CCC ACC	GGC CAC TCC 443
TAT GTC CTT GTC ACC TGC CTA GGT CTC TCC TAT	GAT GGC CTG 447
CTG GGT GAT AAT CAG ATC ATG CCC AAG ACA GGC	TTC CTG ATA 4518
ATT GTC CTG GTC ATG ATT GCA ATG GAG GGC GGC	CAT GCT CCT 456
GAG GAG GAA ATC TGG GAG GAG CTG AGT GTG ATG	GAG GTG TAT 460
GAT GGG AGG GAG CAC AGT GCC TAT GGG GAG CCC	AGG AAG CTG 464
CTC ACC CAA GAT TTG GTG CAG GAA AAG TAC CTG	GAG TAC GGC 468
AGG TGC CGG ACA GTG ATC CCG CAC GCT ATG AGT	TCC TGT GGG 472
GTC CAA GGG CCC TCG CTG AAA CCA GCT ATG TGA	476
AAGTCCTTGA GTATGTGATC AAGGTCAGTG CAAGAGTTC	480
GCTTTTTCTT CCCATCCCTG CGTGAAGCAG CTTTGAGAGA	GGAGGAAGAG 4850
GGAGTCTGAG CATGAGTTGC AGCCAAGGCC AGTGGGAGGG	GGACTGGGCC 490
AGTGCACCTT CCAGGGCCGC GTCCAGCAGC TTCCCCTGCC	TCGTGTGACA 495
TGAGGCCCAT TCTTCACTCT GAAGAGAGCG GTCAGTGTTC	TCAGTAGTAG 500
GTTTCTGTTC TATTGGGTGA CTTGGAGATT TATCTTTGTT	CTCTTTTGGA 505
ATTGTTCAAA TGTTTTTTTT TAAGGGATGG TTGAATGAAC	TTCAGCATCC 510
AAGTTTATGA ATGACAGCAG TCACACAGTT CTGTGTATAT	AGTTTAAGGG 5150
TAAGAGTCTT GTGTTTTATT CAGATTGGGA AATCCATTCT	ATTTTGTGAA 520
TTGGGATAAT AACAGCAGTG GAATAAGTAC TTAGAAATGT	GAAAAATGAG 525
CAGTAAAATA GATGAGATAA AGAACTAAAG AAATTAAGAG	ATAGTCAATT 530
CTTGCCTTAT ACCTCAGTCT ATTCTGTAAA ATTTTTAAAG	ATATATGCAT 535
ACCTGGATTT CCTTGGCTTC TTTGAGAATG TAAGAGAAAT	TAAATCTGAA 540
TAAAGAATTC TTCCTGTTCA CTGGCTCTTT TCTTCTCCAT	GCACTGAGCA 545
TCTGCTTTTT GGAAGGCCCT GGGTTAGTAG TGGAGATGCT	
AGACTCATAC CCACCCATAG GGTCGTAGAG TCTAGGAGCT	GCAGTCACGT 555
AATCGAGGTG GCAAGATGTC CTCTAAAGAT GTAGGGAAAA	
GGTGAGGGTG TGGGGCTCCG GGTGAGAGTG GTGGAGTGTC	
GCTGGGGCAT TTTGGGCTTT GGGAAACTGC AGTTCCTTCT	
ATTGTAATGA TCTTGGGTGG ATCC	572

- (2) INFORMATION FOR SEQUENCE ID NO: 9:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4157 base pairs (B) TYPE: nucleic acid

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-2 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

	TCCCCATCCG				50
	TCACGGGCCC				100
	CAGCGAGATT				150
	GGCGCAGGCT				200
	CGGGCCTCAC		_		250
	CTGCCGGGCC				300
	CACCACCTCA				350
GGAACTCTGG	CGTAAGAGCT	TTGTGTGACC	AGGGCAGGGC	TGGTTAGAAG	400
TGCTCAGGGC	CCAGACTCAG	CCAGGAATCA	AGGTCAGGAC	CCCAAGAGGG	450
GACTGAGGGC	AACCCACCCC	CTACCCTCAC	TACCAATCCC	ATCCCCCAAC	500
ACCAACCCCA	CCCCCATCCC	TCAAACACCA	ACCCCACCCC	CAAACCCCAT	550
TCCCATCTCC	TCCCCCACCA	CCATCCTGGC	AGAATCCGGC	TTTGCCCCTG	600
CAATCAACCC	ACGGAAGCTC	CGGGAATGGC	GGCCAAGCAC	GCGGATCCTG	650
ACGTTCACAT	GTACGGCTAA	GGGAGGGAAG	GGGTTGGGTC	TCGTGAGTAT	700
GGCCTTTGGG	ATGCAGAGGA	AGGGCCCAGG	CCTCCTGGAA	GACAGTGGAG	750
TCCTTAGGGG	ACCCAGCATG	CCAGGACAGG	GGGCCCACTG	TACCCCTGTC	800
TCAAACTGAG	CCACCTTTTC	ATTCAGCCGA	GGGAATCCTA	GGGATGCAGA	850
CCCACTTCAG	GGGGTTGGGG	CCCAGCCTGC	GAGGAGTCAA	GGGGAGGAAG	900
AAGAGGGAGG	ACTGAGGGGA	CCTTGGAGTC	CAGATCAGTG	GCAACCTTGG	950
GCTGGGGGAT	CCTGGGCACA	GTGGCCGAAT	GTGCCCCGTG	CTCATTGCAC	1000
CTTCAGGGTG	ACAGAGAGTT	GAGGGCTGTG	GTCTGAGGGC	TGGGACTTCA	1050
	GGGAGGAATC				1.100
CTTCATGAGG	ACTCCCCATA	CCCCCGGCCC	AGAAAGAAGG	GATGCCACAG	1150
AGTCTGGAAG	TAAATTGTTC	TTAGCTCTGG	GGGAACCTGA	TCAGGGATGG	1200
CCCTAAGTGA	CAATCTCATT	TGTACCACAG	GCAGGAGGTT	GGGGAACCCT	1250
	AGGTGTTGGT				1300
GGTTCCCCCT	TGAGAAAGGG	CAGTCCCTGG	CAGGAGTAAA	GATGAGTAAC	1350
CCACAGGAGG	CCATCATAAC	GTTCACCCTA	GAACCAAAGG	GGTCAGCCCT	1400
	CGTGGGGTAA				1450
CAGATCTCAG	GGAGTTGATG	ACCTTGTTTT	CAGAAGGTGA	CTCAGTCAAC	1500
ACAGGGGCCC	CTCTGGTCGA	CAGATGCAGT	GGTTCTAGGA	TCTGCCAAGC	1550
ATCCAGGTGG	AGAGCCTGAG	GTAGGATTGA	GGGTACCCCT	GGGCCAGAAT	1600
	GGCCCCATAG				1650
	CAGGGCTGTC				1700
	GAAGGGGAGG				1750
	GGTCTCAGGC				1800
	CCAGGACACC				1850
	GAGGACCTGG				1900
	TACCATATCA				1950
	AAAGGGTGGG				2000
					2000

CCTGAGTGAG CACAGAGGGG ACCCTCACC CAAGTAGAGT GGGGACCTCA	2050
CGGAGTCTGG CCAACCCTGC TGAGACTTCT GGGAATCCGT GGCTGTGCTT	2100
GCAGTCTGCA CACTGAAGGC CCGTGCATTC CTCTCCCAGG AATCAGGAGC	2150
TCCAGGAACC AGGCAGTGAG GCCTTGGTCT GAGTCAGTGC CTCAGGTCAC	2200
AGAGCAGAGG GGACGCAGAC AGTGCCAACA CTGAAGGTTT GCCTGGAATG	
	2250
CACACCAAGG GCCCCACCG CCCAGAACAA ATGGGACTCC AGAGGGCCTG	2300
GCCTCACCCT CCCTATTCTC AGTCCTGCAG CCTGAGCATG TGCTGGCCGG	2350
CTGTACCCTG AGGTGCCCTC CCACTTCCTC CTTCAGGTTC TGAGGGGGAC	2400
AGGCTGACAA GTAGGACCCG AGGCACTGGA GGAGCATTGA AGGAGAAGAT	2450
CTGTAAGTAA GCCTTTGTCA GAGCCTCCAA GGTTCAGTTC AGTTCTCACC	2500
TAAGGCCTCA CACACGCTCC TTCTCTCCCC AGGCCTGTGG GTCTTCATTG	2550
CCCAGCTCCT GCCCGCACTC CTGCCTGCTG CCCTGACCAG AGTCATC	2597
ATG CCT CTT GAG CAG AGG AGT CAG CAC TGC AAG CCT GAA GAA	2639
$\cdot$	
GGC CTT GAG GCC CGA GGA GAG GCC CTG GGC CTG GTG GGT GCG	2681
CAG GCT CCT GCT ACT GAG GAG CAG CAG ACC GCT TCT TCC TCT	2723
TCT ACT CTA GTG GAA GTT ACC CTG GGG GAG GTG CCT GCC	2765
GAC TCA CCG AGT CCT CCC CAC AGT CCT CAG GGA GCC TCC AGC	2807
TTC TCG ACT ACC ATC AAC TAC ACT CTT TGG AGA CAA TCC GAT	2849
GAG GGC TCC AGC AAC CAA GAA GAG GAG GGG CCA AGA ATG TTT	2891
CCC GAC CTG GAG TCC GAG TTC CAA GCA GCA ATC AGT AGG AAG	2933
ATG GTT GAG TTG GTT CAT TTT CTG CTC CTC AAG TAT CGA GCC	2975
AGG GAG CCG GTC ACA AAG GCA GAA ATG CTG GAG AGT GTC CTC	3017
AGA AAT TGC CAG GAC TTC TTT CCC GTG ATC TTC AGC AAA GCC	
	3059
TCC GAG TAC TTG CAG CTG GTC TTT GGC ATC GAG GTG GTA	3101
GTG GTC CCC ATC AGC CAC TTG TAC ATC CTT GTC ACC TGC CTG	3143
GGC CTC TCC TAC GAT GGC CTG CTG GGC GAC AAT CAG GTC ATG	3185
CCC AAG ACA GGC CTC CTG ATA ATC GTC CTG GCC ATA ATC GCA	3227
ATA GAG GGC GAC TGT GCC CCT GAG GAG AAA ATC TGG GAG GAG	3269
CTG AGT ATG TTG GAG GTG TTT GAG GGG AGG GAC AGT GTC	3311
TTC GCA CAT CCC AGG AAG CTG CTC ATG CAA GAT CTG GTG CAG	3353
GAA AAC TAC CTG GAG TAC CGG CAG GTG CCC GGC AGT GAT CCT	3395
GCA TGC TAC GAG TTC CTG TGG GGT CCA AGG GCC CTC ATT GAA	3437
ACC AGC TAT GTG AAA GTC CTG CAC CAT ACA CTA AAG ATC GGT	3479
GGA GAA CCT CAC ATT TCC TAC CCA CCC CTG CAT GAA CGG GCT	3521
TTG AGA GAG GGA GAA GAG TGA	3542
GTCTCAGCAC ATGTTGCAGC CAGGGCCAGT GGGAGGGGGT CTGGGCCAGT	3592
GCACCTTCCA GGGCCCCATC CATTAGCTTC CACTGCCTCG TGTGATATGA	
	3642
GGCCCATTCC TGCCTCTTTG AAGAGAGCAG TCAGCATTCT TAGCAGTGAG	3692
TTTCTGTTCT GTTGGATGAC TTTGAGATTT ATCTTTCTTT CCTGTTGGAA	3742
TTGTTCAAAT GTTCCTTTTA ACAAATGGTT GGATGAACTT CAGCATCCAA	3792
GTTTATGAAT GACAGTAGTC ACACATAGTG CTGTTTATAT AGTTTAGGGG	3842
TAAGAGTCCT GTTTTTTATT CAGATTGGGA AATCCATTCC ATTTTGTGAG	3892
TTGTCACATA ATAACAGCAG TGGAATATGT ATTTGCCTAT ATTGTGAACG	3942
AATTAGCAGT AAAATACATG ATACAAGGAA CTCAAAAGAT AGTTAATTCT	3992
TGCCTTATAC CTCAGTCTAT TATGTAAAAT TAAAAATATG TGTATGTTTT	4042
TGCTTCTTTG AGAATGCAAA AGAAATTAAA TCTGAATAAA TTCTTCCTGT	4092
	4142
TCACTGGCTC ATTTCTTTAC CATTCACTCA GCATCTGCTC TGTGGAAGGC	
CCTGGTAGTA GTGGG	4157

- (2) INFORMATION FOR SEQUENCE ID NO: 10:
   (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 662 base pairs
   (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-21 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

GGATCCCCAT	GGATCCAGGA	AGAATCCAGT	TCCACCCCTG	CTGTGAACCC	50
AGGGAAGTCA	CGGGGCCGGA	TGTGACGCCA	CTGACTTGCG	CGTTGGAGGT	100
CAGAGAACAG	CGAGATTCTC	GCCCTGAGCA	ACGGCCTGAC	GTCGGCGGAG	150
GGAAGCAGGC	GCAGGCTCCG	TGAGGAGGCA	AGGTAAGATG	CCGAGGGAGG	200
ACTGAGGCGG	GCCTCACCCC	AGACAGAGGG	CCCCCAATAA	TCCAGCGCTG	250
CCTCTGCTGC	CAGGCCTGGA	CCACCCTGCA	GGGGAAGACT	TCTCAGGCTC	300
AGTCGCCACC	ACCTCACCCC	GCCACCCCC	GCCGCTTTAA	CCGCAGGGAA	350
CTCTGGTGTA	AGAGCTTTGT	GTGACCAGGG	CAGGGCTGGT	TAGAAGTGCT	400
CAGGGCCCAG	ACTCAGCCAG	GAATCAAGGT	CAGGACCCCA	AGAGGGGACT	450
GAGGGTAACC	CCCCCGCACC	CCCACCACCA	TTCCCATCCC	CCAACACCAA	500
CCCCACCCC	ATCCCCCAAC	ACCAAACCCA	CCACCATCGC	TCAAACATCA	550
ACGGCACCCC	CAAACCCCGA	TTCCCATCCC	CACCCATCCT	GGCAGAATCG	600
GAGCTTTGCC	CCTGCAATCA	ACCCACGGAA	GCTCCGGGAA	TGGCGGCCAA	650
GCACGCGGAT	CC				662

- (2) INFORMATION FOR SEQUENCE ID NO: 11:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1640 base pairs
    - (B) TYPE: nucleic acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA to mRNA
  - (ix) FEATURE:
    - (A) NAME/KEY: cDNA MAGE-3
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GCCG	CGAG	GG A	AAGC	CGGCC	CC AC	GCT	CGGT	G AGO	GAGG	CAAG	GTT	CTGAC	GGG	50
GACA	GGCI	GA (	CCTG	SAGG!	AC CA	AGAGO	CCCC	CCGC	GAGG!	AGCA	CTG	\AGG <i>I</i>	AGA	100
AGAT	CTGC	CA C	STGG	STCT	CC A	rtgcc	CCAGC	C TCC	CTGC	CCAC	ACT	CCCG	CCT	150
GTTG	CCCI	GA (	CCAG	AGTC	AT C									171
ATG (	CCT	CTT	GAG	CAG	AGG	AGT	CAG	CAC	TGC	AAG	CCT	GAA	GAA	213
GGC (	CTT	GAG	GCC	CGA	GGA	GAG	GCC	CTG	GGC	CTG	GTG	GGT	GCG	255
CAG (	GCT	CCT	GCT	ACT	GAG	GAG	CAG	GAG	GCT	GCC	TCC	TCC	TCT	297
TCT A	ACT	CTA	GTT	GAA	GTC	ACC	CTG	GGG	GAG	GTG	CCT	GCT	GCC	339
GAG :	TCA	CCA	GAT	CCT	CCC	CAG	AGT	CCT	CAG	GGA	GCC	TCC	AGC	381
CTC (	CCC	ACT	ACC	ATG	AAC	TAC	CCT	CTC	TGG	AGC	CAA	TCC	TAT	423
GAG (	GAC	TCC	AGC	AAC	CAA	GAA	GAG	GAG	GGG	CCA	AGC	ACC	TTC	465
CCT (	GAC	CTG	GAG	TCC	GAG	TTC	CAA	GCA	GCA	CTC	AGT	AGG	AAG	507

GTG	GCC	GAG	TTG	GTT	CAT	TTT	CTG	CTC	CTC	AAG	TAT	CGA	GCC	549
AGG	GAG	CCG	GTC	ACA	AAG	GCA	GAA	ATG	CTG	GGG	AGT	GTC	GTC	591
GGA	AAT	TGG	CAG	TAT	TTC	TTT	CCT	GTG	ATC	TTC	AGC	AAA	GCT	633
TCC	AGT	TCC	TTG	CAG	CTG	GTC	TTT	GGC	ATC	GAG	CTG	ATG	GAA	675
GTG	GAC	CCC	ATC	GGC	CAC	TTG	TAC	ATC	TTT	GCC	ACC	TGC	CTG	717
GGC	CTC	TCC	TAC	GAT	GGC	CTG	CTG	GGT	GAC	AAT	CAG	ATC	ATG	759
CCC	AAG	GCA	GGC	CTC	CTG	ATA	ATC	GTC	CTG	GCC	ATA	ATC	GCA	801
AGA	GAG	GGC	GAC	TGT	GCC	CCT	GAG	GAG	AAA	ATC	TGG	GAG	GAG	843
CTG	AGT	GTG	TTA	GAG	GTG	TTT	GAG	GGG	AGG	GAA	GAC	AGT	ATG	885
TTG	GGG	GAT	CCC	AAG	AAG	CTG	CTC	ACC	CAA	CAT	TTC	GTG	CAG	927
GAA	AAC	TAC	CTG	GAG	TAC	CGG	CAG	GTC	CCC	GGC	AGT	GAT	CCT	969
GCA	TGT	TAT	GAA	TTC	CTG	TGG	GGT	CCA	AGG	GCC	CTC	GTT	GAA	1011
ACC	AGC	TAT	GTG	AAA	GTC	CTG	CAC	CAT	ATG	GTA	AAG	ATC	AGT	1053
GGA	GGA	CCT	CAC	ATT	TCC	TAC	CCA	CCC	CTG	CAT	GAG	TGG	GTT	1095
TTG	AGA	GAG	GGG	GAA	GAG	TGA								1116
GTCT	rgago	CAC	GAGT:	rgca(	GC CA	\GGG(	CCAG	r GG(	GAGG	GGT	CTG	GCC2	AGT	1166
GCA	CCTTC	CCG (	GGGC	CGCA	CC CC	CTTAC	TTTE	CAC	CTGC	CTCC	TGT	GACG:	<b>IGA</b>	1216
GGC	CATI	CT :	rcac:	rctt?	rg az	\GCG#	AGCAC	F TC	AGCA	rtct	TAG	ragt(	GGG	1266
TTTC	CTGTT	CT (	GTTG	GATGA	AC TI	rtgac	SATTA	TTC	CTTTC	STTT	CCT	GTTG	GAG	1316
TTGT	TCA	AT (	GTTC	CTTT	CA AC	CGGAT	rggti	r gaz	ATGAC	GCGT	CAG	CATC	CAG	1366
			GACA											1416
TAAC	BAGTO	CTT (	GttTT	CTTA	CT CF	LTAAL	ſgGGĮ	AA A	rcca?	rtcc	ATT	rtgt	GAA	1466
TTGT	rgac <i>i</i>	ATA A	CAATA	ragc <i>i</i>	AG TO	GTA	AAAGT	TA T	rtgct	AATT	AAT:	rgtg <i>i</i>	AGC	1516
GAA'	TAGO	CAA :	raac <i>i</i>	ATACA	AT GA	AGATA	AACTO	CAAC	JAAA?	rcaa.	AAG	ATAG:	ΓTG	1566
ATTO	CTTGC	CCT :	rgta(	CCTC	AA TO	CTAT	CTG	LAA 1	ATTA	AAAC	AAA	[ATG	CAA	1616
ACC	AGGA'I	TTT (	CCTTC	GACT	C T	ſŢĠ								1640

- (2) INFORMATION FOR SEQUENCE ID NO: 12:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 943 base pairs
    - (B) TYPE: nucleic acid (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-31 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GGATCCTCCA	CCCCAGTAGA	GTGGGGACCT	CACAGAGTCT	GGCCAACCCT	50
CCTGACAGTT	CTGGGAATCC	GTGGCTGCGT	TTGCTGTCTG	CACATTGGGG	100
GCCCGTGGAT	TCCTCTCCCA	GGAATCAGGA	GCTCCAGGAA	CAAGGCAGTG	150
AGGACTTGGT	CTGAGGCAGT	GTCCTCAGGT	CACAGAGTAG	AGGGGGCTCA	200
	ACGGTGAAGG				250
CTGCCCCAGA	ACACATGGAC	TCCAGAGCGC	CTGGCCTCAC	CCTCAATACT	300
TTCAGTCCTG	CAGCCTCAGC	ATGCGCTGGC	CGGATGTACC	CTGAGGTGCC	350
CTCTCACTTC	CTCCTTCAGG	TTCTGAGGGG	ACAGGCTGAC	CTGGAGGACC	400
	GGAGGAGCAC				450
	CAAGGTTCCA				500
TCCCTCTCTC	CCCAGGCCAG	TGGGTCTCCA	TTGCCCAGCT	CCTGCCCACA	550

CTC	CCGC	CTG :	rtgc	CCTG	AC CA	AGAGT	CAT	C						580
ATG	CCT	CTT	GAG	CAG	AGG	AGT	CAG	CAC	TGC	AAG	CCT	GAA	GAA	622
GGC	CTT	GAG	GCC	CGA	GGA	GAg	GCC	CTG	GGC	CTG	GTG	GGT	GCG	664
CAG	GCT	CCT	GCT	ACT	GAG	GAG	CAG	GAG	GCT	GCC	TCC	TCC	TCT	706
TCT	AGT	GTA	GTT	GAA	GTC	ACC	CTG	GGG	GAG	GTG	CCT	GCT	GCC	748
				CCT										790
				ATG										832
				AAC										874
CCT	GAC	CTG	GAG	TCT	GAG	TTC	CAA	GCA	GCA	CTC	AGT	AGG	AAG	916
GTG	GCC	AAG	TTG	GTT	CAT	TTT	CTG	CTC						943

- (2) INFORMATION FOR SEQUENCE ID NO: 13:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2531 base pairs (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-4 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GGATCCAGGC CCTGCCTGGA GAAATGTGAG GGCCCTGAGT GAACA	CAGTG 50
GGGATCATCC ACTCCATGAG AGTGGGGACC TCACAGAGTC CAGCC	
TCTTGATGGC ACTGAGGGAC CGGGGCTGTG CTTACAGTCT GCACC	
GGCCCATGGA TTCCTCTCT AGGAGCTCCA GGAACAAGGC AGTGAG	
TGGTCTGAGA CAGTGTCCTC AGGTTACAGA GCAGAGGATG CACAG	
GCCAGCAGTG AATGTTTGCC CTGAATGCAC ACCAAGGGCC CCACC	
CAAGACACAT AGGACTCCAA AGAGTCTGGC CTCACCTCCC TACCA'	
CCTGCAGAAT CGACCTCTGC TGGCCGGCTA TACCCTGAGG TGCTC	
CTTCCTCCTT CAGGTTCTGA GCAGACAGGC CAACCGGAGA CAGGA'	
TGGAGGCCAC AGAGGAGCAC CAAGGAGAAG ATCTGTAAGT AAGCC	
TAGAGCCTCT AAGATTTGGT TCTCAGCTGA GGTCTCTCAC ATGCT	CCCTC 550
TCTCCGTAGG CCTGTGGGTC CCCATTGCCC AGCTTTTGCC TGCAC	
CCTGCTGCCC TGACCAGAGT CATC	624
ATG TCT TCT GAG CAG AAG AGT CAG CAC TGC AAG CCT G	AG GAA 666
GGC GTT GAG GCC CAA GAA GAG GCC CTG GGC CTG GTG G	GT GCA 708
CAG GCT CCT ACT ACT GAG GAG CAG GAG GCT GCT GTC TO	CC TCC 750
TCC TCT CCT CTG GTC CCT GGC ACC CTG GAG GAA GTG CO	CT GCT 792
GCT GAG TCA GCA GGT CCT CCC CAG AGT CCT CAG GGA G	CC TCT 834
GCC TTA CCC ACT ACC ATC AGC TTC ACT TGC TGG AGG C	AA CCC 876
AAT GAG GGT TCC AGC AGC CAA GAA GAG GAG GGG CCA AG	GC ACC 918
TCG CCT GAC GCA GAG TCC TTG TTC CGA GAA GCA CTC AG	GT AAC 960
AAG GTG GAT GAG TTG GCT CAT TTT CTG CTC CGC AAG T	AT CGA 1002
GCC AAG GAG CTG GTC ACA AAG GCA GAA ATG CTG GAG AG	GA GTC 1044
ATC AAA AAT TAC AAG CGC TGC TTT CCT GTG ATC TTC GG	GC AAA 1086
GCC TCC GAG TCC CTG AAG ATG ATC TTT GGC ATT GAC G'	TG AAG 1128
GAA GTG GAC CCC GCC AGC AAC ACC TAC ACC CTT GTC AG	CC TGC 1.170
CTG GGC CTT TCC TAT GAT GGC CTG CTG GGT AAT AAT C	AG ATC 1212

TTT CCC AAG ACA GGC CTT CTG	ATA ATC GTC CTG	GGC ACA ATT	1254
GCA ATG GAG GGC GAC AGC GCC	TCT GAG GAG GAA	ATC TGG GAG	1296
GAG CTG GGT GTG ATG GGG GTG	TAT GAT GGG AGG	GAG CAC ACT	1338
GTC TAT GGG GAG CCC AGG AAA	CTG CTC ACC CAA	GAT TGG GTG	1380
CAG GAA AAC TAC CTG GAG TAC	CGG CAG GTA CCC	GGC AGT AAT	1422
CCT GCG CGC TAT GAG TTC CTG	TGG GGT CCA AGG	GCT CTG GCT	1464
	CTG GAG CAT GTG		1506
	TAC CCA TCC CTG	GGT GAA GCA	1548
GCT TTG TTA GAG GAG GAA GAG	GGA GTC TGA		1578
GCATGAGTTG CAGCCAGGGC TGTGG	GGAAG GGGCAGGGCT	GGGCCAGTGC	1628
ATCTAACAGC CCTGTGCAGC AGCTT	CCCTT GCCTCGTGTA	ACATGAGGCC	1678
CATTCTTCAC TCTGTTTGAA GAAAA	TAGTC AGTGTTCTTA	GTAGTGGGTT	1728
TCTATTTTGT TGGATGACTT GGAGA	ITTAT CTCTGTTTCC	TTTTACAATT	1778
GTTGAAATGT TCCTTTTAAT GGATG	GTTGA ATTAACTTCA	GCATCCAAGT	1828
TTATGAATCG TAGTTAACGT ATATTC	GCTGT TAATATAGTT	TAGGAGTAAG	1878
AGTCTTGTTT TTTATTCAGA TTGGG	AAATC CGTTCTATTI	' TGTGAATTTG	1928
GGACATAATA ACAGCAGTGG AGTAA	GTATT TAGAAGTGTG	AATTCACCGT	1978
GAAATAGGTG AGATAAATTA AAAGA	FACTT AATTCCCGCC	TTATGCCTCA	2028
GTCTATTCTG TAAAATTTAA AAATA	TATAT GCATACCTGG	ATTTCCTTGG	2078
CTTCGTGAAT GTAAGAGAAA TTAAA	ICTGA ATAAATAATI	CTTTCTGTTA	2128
ACTGGCTCAT TTCTTCTCTA TGCAC	IGAGC ATCTGCTCTG	TGGAAGGCCC	2178
AGGATTAGTA GTGGAGATAC TAGGG	TAAGC CAGACACACA	CCTACCGATA	2228
GGGTATTAAG AGTCTAGGAG CGCGG	ICATA TAATTAAGGI	' GACAAGATGT	2278
CCTCTAAGAT GTAGGGGAAA AGTAAG	CGAGT GTGGGTATGG	GGCTCCAGGT	2328
GAGAGTGGTC GGGTGTAAAT TCCCTC	STGTG GGGCCTTTTG	GGCTTTGGGA	2378
AACTGCATTT TCTTCTGAGG GATCT	GATTC TAATGAAGCT	TGGTGGGTCC	2428
AGGGCCAGAT TCTCAGAGGG AGAGGG	GAAAA GCCCAGATTG	GAAAAGTTGC	2478
TCTGAGCAGT TCCTTTGTGA CAATG	GATGA ACAGAGAGGA	GCCTCTACCT	2528
GGG			2531

- (2) INFORMATION FOR SEQUENCE ID NO: 14:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2531 base pairs
    - (B) TYPE: nucleic acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-41 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGATCCAGGC	CCTGCCTGGA	GAAATGTGAG	GGCCCTGAGT	GAACACAGTG	50
GGGATCATCC	ACTCCATGAG	AGTGGGGACC	TCACAGAGTC	CAGCCTACCC	100
TCTTGATGGC	ACTGAGGGAC	CGGGGCTGTG	CTTACAGTCT	GCACCCTAAG	150
GGCCCATGGA	TTCCTCTCCT	AGGAGCTCCA	GGAACAAGGC	AGTGAGGCCT	200
TGGTCTGAGA	CAGTGTCCTC	AGGTTACAGA	GCAGAGGATG	CACAGGCTGT	250
GCCAGCAGTG	AATGTTTGCC	CTGAATGCAC	ACCAAGGGCC	CCACCTGCCA	300
CAAGACACAT	AGGACTCCAA	AGAGTCTGGC	CTCACCTCCC	TACCATCAAT	350
CCTGCAGAAT	CGACCTCTGC	TGGCCGGCTA	TACCCTGAGG	TGCTCTCTCA	400

CTTCCTCCTT CAGGTTCTGA GCAGACAGGC CAACCGGAGA	CAGGATTCCC 45	50
TGGAGGCCAC AGAGGAGCAC CAAGGAGAAG ATCTGTAAGT	AAGCCTTTGT 50	00
TAGAGCCTCT AAGATTTGGT TCTCAGCTGA GGTCTCTCAC		50
TCTCCGTAGG CCTGTGGGTC CCCATTGCCC AGCTTTTGCC		
CCTGCTGCCC TGAGCAGAGT CATC	62	
ATG TCT TCT GAG CAG AAG AGT CAG CAC TGC AAG		
GGC GTT GAG GCC CAA GAA GAG GCC CTG GGC CTG		
CAG GCT CCT ACT ACT GAG GAG CAG GAG GCT GCT		
TCC TCT CCT CTG GTC CCT GGC ACC CTG GAG GAA GCT GAG TCA GCA GGT CCT CCC CAG AGT CCT CAG	·	
GCC TTA CCC ACT ACC ATC AGC TTC ACT TGC TGG		
AAT GAG GGT TCC AGC AGC CAA GAA GAG GAG GGG		
TCG CCT GAC GCA GAG TCC TTG TTC CGA GAA GCA		
AAG GTG GAT GAG TTG GCT CAT TTT CTG CTC CGC		
GCC AAG GAG CTG GTC ACA AAG GCA GAA ATG CTG		
ATC AAA AAT TAC AAG CGC TGC TTT CCT GTG ATC		
GCC TCC GAG TCC CTG AAG ATG ATC TTT GGC ATT		
GAA GTG GAC CCC ACC AGC AAC ACC TAC ACC CTT		
CTG GGC CTT TCC TAT GAT GGC CTG CTG GGT AAT		
TTT CCC AAG ACA GGC CTT CTG ATA ATC GTC CTG	GGC ACA ATT 125	54
GCA ATG GAG GGC GAC AGC GCC TCT GAG GAG GAA	ATC TGG GAG 129	€
GAG CTG GGT GTG ATG GGG GTG TAT GAT GGG AGG	GAG CAC ACT 133	8
GTC TAT GGG GAG CCC AGG AAA CTG CTC ACC CAA	GAT TGG GTG 138	30
CAG GAA AAC TAC CTG GAG TAC CGG CAG GTA CCC	GGC AGT AAT 142	2
CCT GCG CGC TAT GAG TTC CTG TGG GGT CCA AGG		
GAA ACC AGC TAT GTG AAA GTC CTG GAG CAT GTG		
AAT GCA AGA GTT CGC ATT GCC TAC CCA TCC CTG		
GCT TTG TTA GAG GAG GAA GAG GGA GTC TGA	157	
GCATGAGTTG CAGCCAGGGC TGTGGGGAAG GGGCAGGGCT		
ATCTAACAGC CCTGTGCAGC AGCTTCCCTT GCCTCGTGTA		
CATTCTTCAC TCTGTTTGAA GAAAATAGTC AGTGTTCTTA		
TCTATTTTGT TGGATGACTT GGAGATTTAT CTCTGTTTCC		
GTTGAAATGT TCCTTTTAAT GGATGGTTGA ATTAACTTCA TTATGAATCG TAGTTAACGT ATATTGCTGT TAATATAGTT		
AGTCTTGTTT TTTATTCAGA TTGGGAAATC CGTTCTATTT		
GGACATAATA ACAGCAGTGG AGTAAGTATT TAGAAGTGTG		
GAAATAGGTG AGATAAATTA AAAGATACTT AATTCCCGCC		
GTCTATTCTG TAAAATTTAA AAATATATAT GCATACCTGG		
CTTCGTGAAT GTAAGAGAAA TTAAATCTGA ATAAATAATT		
ACTGGCTCAT TTCTTCTCTA TGCACTGAGC ATCTGCTCTG		
AGGATTAGTA GTGGAGATAC TAGGGTAAGC CAGACACACA		
GGGTATTAAG AGTCTAGGAG CGCGGTCATA TAATTAAGGT		
CCTCTAAGAT GTAGGGGAAA AGTAACGAGT GTGGGTATGG	GGCTCCAGGT 232	8
GAGAGTGGTC GGGTGTAAAT TCCCTGTGTG GGGCCTTTTG	GGCTTTGGGA 237	18
AACTCCATTT TCTTCTGAGG GATCTGATTC TAATGAAGCT		8 :
AGGGCCAGAT TCTCAGAGGG AGAGGGAAAA GCCCAGATTG		
TCTGAGCGGT TCCTTTGTGA CAATGGATGA ACAGAGAGGA		
GGG	253	1

- (2) INFORMATION FOR SEQUENCE ID NO: 15:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1068 base pairs
    - (B) TYPE: nucleic acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA to mRNA
  - (ix) FEATURE:
    - (A) NAME/KEY: cDNA MAGE-4
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

G GGG CCA AGC ACC TCG CCT GAC GCA GAG TCC	TTG TTC CGA 40
GAA GCA CTC AGT AAC AAG GTG GAT GAG TTG GCT	CAT TTT CTG 82
CTC CGC AAG TAT CGA GCC AAG GAG CTG GTC ACA	AAG GCA GAA 124
ATG CTG GAG AGA GTC ATC AAA AAT TAC AAG CGC	TGC TTT CCT 166
GTG ATC TTC GGC AAA GCC TCC GAG TCC CTG AAG	ATG ATC TTT 208
GGC ATT GAC GTG AAG GAA GTG GAC CCC GCC AGC	AAC ACC TAC 250
ACC CTT GTC ACC TGC CTG GGC CTT TCC TAT GAT	GGC CTG CTG 292
GGT AAT AAT CAG ATC TTT CCC AAG ACA GGC CTT	CTG ATA ATC 334
GTC CTG GGC ACA ATT GCA ATG GAG GGC GAC AGC	GCC TCT GAG 376
GAG GAA ATC TGG GAG GAG CTG GGT GTG ATG GGG	GTG TAT GAT 418
GGG AGG GAG CAC ACT GTC TAT GGG GAG CCC AGG	AAA CTG CTC 460
ACC CAA GAT TGG GTG CAG GAA AAC TAC CTG GAG	TAC CGG CAG 502
GTA CCC GGC AGT AAT CCT GCG CGC TAT GAG TTC	CTG TGG GGT 544
CCA AGG GCT CTG GCT GAA ACC AGC TAT GTG AAA	GTC CTG GAG 586
CAT GTG GTC AGG GTC AAT GCA AGA GTT CGC ATT	GCC TAC CCA 628
TCC CTG CGT GAA GCA GCT TTG TTA GAG GAG GAA	GAG GGA GTC 670
TGAGCATGAG TTGCAGCCAG GGCTGTGGGG AAGGGGCAGG	GCTGGGCCAG 720
TGCATCTAAC AGCCCTGTGC AGCAGCTTCC CTTGCCTCGT	GTAACATGAG 770
GCCCATTCTT CACTCTGTTT GAAGAAAATA GTCAGTGTTC	TTAGTAGTGG 820
GTTTCTATTT TGTTGGATGA CTTGGAGATT TATCTCTGTT	TCCTTTTACA 870
ATTGTTGAAA TGTTCCTTTT AATGGATGGT TGAATTAACT	TCAGCATCCA 920
AGTTTATGAA TCGTAGTTAA CGTATATTGC TGTTAATATA	GTTTAGGAGT 970
AAGAGTCTTG TTTTTTATTC AGATTGGGAA ATCCGTTCTA	
TTGGGACATA ATAACAGCAG TGGAGTAAGT ATTTAGAAGT	GTGAATTC 1068

- (2) INFORMATION FOR SEQUENCE ID NO: 16:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2226 base pairs
    - (B) TYPE: nucleic acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-5 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGGACCATTC ACCCCAAGAG GGTGGAGACC TCACAGATTC	CA CCCTTA CCC	100
TCCTGTTAGC ACTGGGGGCC TGAGGCTGTG CTTGCAGTCT		100 150
GGCCCATGCA TTCCTCTTCC AGGAGCTCCA GGAAACAGAC		
		200
TGGTCTGAGG CCGTGCCCTC AGGTCACAGA GCAGAGGAGA		250
TAGTGCCAGC AGTGAACGTT TGCCTTGAAT GCACACTAAT		300
GCCCCAGAAC ATATGGGACT CCAGAGCACC TGGCCTCACC	_	350
TCAGTCCTGC AGAATCAGCC TCTGCTTGCT TGTGTACCCT		400
CTCACTTTTT CCTTCAGGTT CTCAGGGGAC AGGCTGACCA		450
GAAGCTCCAG AGGATCCCCA GGAGGCCCTA GAGGAGCACC	AAAGGAGAAG	500
ATCTGTAAGT AAGCCTTTGT TAGAGCCTCC AAGGTTCAGT	TTTTAGCTGA	550
GGCTTCTCAC ATGCTCCCTC TCTCTCCAGG CCAGTGGGTC	TCCATTGCCC	600
AGCTCCTGCC CACACTCCTG CCTGTTGCGG TGACCAGAGT	CGTC	644
ATG TCT CTT GAG CAG AAG AGT CAG CAC TGC AAG	CCT GAG GAA	684
CTC CTC TGG TCC CAG GCA CCC TGG GGG AGG TGC		728
GGT CAC CAG GTC CTC TCA AGA GTC CTC AGG GAG		770
TCC CCA CTG CCA TCG ATT TCA CTC TAT GGA GGC		812
AGG GCT CCA GCA ACC AAG AAG AGG AGG GGC CAA		854
CTG ACC CAG AGT CTG TGT TCC GAG CAG CAC TCA		
	GIA AGA AGG	896
TGG CTG ACT TGA	G1 G1 1 1 GGG1	908
TTCATTTTCT GCTCCTCAAG TATTAAGTCA AGGAGCTGGT		958
GAAATGCTGG AGAGCGTCAT CAAAAATTAC AAGCGCTGCT		1008
CTTCGGCAAA GCCTCCGAGT CCTTGCAGCT GGTCTTTGGC		1058
AGGAAGCGGA CCCCACCAGC AACACCTACA CCCTTGTCAC		1108
CTCCTATGAT GGCCTGCTGG TTGATAATAA TCAGATCATG		1158
GCCTCCTGAT AATCGTCTTG GGCATGATTG CAATGGAGGG	CAAATGCGTC	1208
CCTGAGGAGA AAATCTGGGA GGAGCTGAGT GTGATGAAGG	TGTATGTTGG	1258
GAGGGAGCAC AGTGTCTGTG GGGAGCCCAG GAAGCTGCTC	ACCCAAGATT	1308
TGGTGCAGGA AAACTACCTG GAGTACCGGC AGGTGCCCAG	CAGTGATCCC	1358
ATATGCTATG AGTTACTGTG GGGTCCAAGG GCACTCGCTG	CTTGAAAGTA	1408
CTGGAGCACG TGGTCAGGGT CAATGCAAGA GTTCTCATTT	CCTACCCATC	1458
CCTGCGTGAA GCAGCTTTGA GAGAGGAGGA AGAGGGAGTC		1508
CTGCAGCCAG GGCCACTGCG AGGGGGGCTG GGCCAGTGCA		1558
CTCCGTCCAG TAGTTTCCCC TGCCTTAATG TGACATGAGG		1608
TCTCTTTGAA GAGAGCAGTC AACATTCTTA GTAGTGGGTT		1658
TGGATGACTT TGAGATTTGT CTTTGTTTCC TTTTGGAATT		1708
TTCTTTTAAT GGGTGGTTGA ATGAACTTCA GCATTCAAAT		1758
CAGTAGTCAC ACATAGTGCT GTTTATATAG TTTAGGAGTA		
		1808
TTTTTATTCA GATTGGGAAA TCCATTCCAT TTTGTGAATT		1858
TACAGCAGTG GAATAAGTAT TCATTTAGAA ATGTGAATGA		1908
TGATGACATA AAGAAATTAA AAGATATTTA ATTCTTGCTT		1958
TATTCGGTAA AATTTTTTTT AAAAAATGTG CATACCTGGA		2008
TTCTTTGAGA ATGTAAGACA AATTAAATCT GAATAAATCA		2058
TCACTGGCTC ATTTATTCTC TATGCACTGA GCATTTGCTC		2108
CCTGGGTTAA TAGTGGAGAT GCTAAGGTAA GCCAGACTCA	CCCCTACCCA	2158
CAGGGTAGTA AAGTCTAGGA GCAGCAGTCA TATAATTAAG	GTGGAGAGAT	2208
GCCCTCTAAG ATGTAGAG		2226
	•	

- INFORMATION FOR SEQUENCE ID NO: 17: (2)
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2305 base pairs
    - (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-51 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GGATCCAGGC CTTGCCAGGA GAAAGGTGAG GGCCCTGTGT	GAGCACAGAG	50
GGGACCATTC ACCCCAAGAG GGTGGAGACC TCACAGATTC	CAGCCTACCC	100
TCCTGTTAGC ACTGGGGGCC TGAGGCTGTG CTTGCAGTCT	GCACCCTGAG	150
GGCCCATGCA TTCCTCTTCC AGGAGCTCCA GGAAACAGAC	ACTGAGGCCT	200
TGGTCTGAGG CCGTGCCCTC AGGTCACAGA GCAGAGGAGA	TGCAGACGTC	250
TAGTGCCAGC AGTGAACGTT TGCCTTGAAT GCACACTAAT	GGCCCCCATC	300
GCCCCAGAAC ATATGGGACT CCAGAGCACC TGGCCTCACC	CTCTCTACTG	350
TCAGTCCTGC AGAATCAGCC TCTGCTTGCT TGTGTACCCT	GAGGTGCCCT	400
CTCACTTTTT CCTTCAGGTT CTCAGGGGAC AGGCTGACCA	GGATCACCAG	450
GAAGCTCCAG AGGATCCCCA GGAGGCCCTA GAGGAGCACC	AAAGGAGAAG	500
ATCTGTAAGT AAGCCTTTGT TAGAGCCTCC AAGGTTCAGT	TTTTAGCTGA	550
GGCTTCTCAC ATGCTCCCTC TCTCTCCAGG CCAGTGGGTC	TCCATTGCCC	600
AGCTCCTGCC CACACTCCTG CCTGTTGCGG TGACCAGAGT	CGTC	644
ATG TCT CTT GAG CAG AAG AGT CAG CAC TGC AAG	CCT GAG GAA	686
GGC CTT GAC ACC CAA GAA GAG CCC TGG GCC TGG	TGG GTG TGC	728
AGG CTG CCA CTA CTG AGG AGC AGG AGG CTG TGT	CCT CCT CCT	770
CTC CTC TGG TCC CAG GCA CCC TGG GGG AGG TGC	CTG CTG CTG	812
GGT CAC CAG GTC CTC TCA AGA GTC CTC AGG GAG	CCT CCG CCA	854
TCC CCA CTG CCA TCG ATT TCA CTC TAT GGA GGC	AAT CCA TTA	896
AGG GCT CCA GCA ACC AAG AAG AGG AGG GGC CAA	GCA CCT CCC	938
CTG ACC CAG AGT CTG TGT TCC GAG CAG CAC TCA	GTA AGA AGG	980
TGG CTG ACT TGA		992
TTCATTTTCT GCTCCTCAAG TATTAAGTCA AGGAGCCGGT	CACAAAGGCA	1042
GAAATGCTGG AGAGCGTCAT CAAAAATTAC AAGCGCTGCT		1092
CTTCGGCAAA GCCTCCGAGT CCTTGCAGCT GGTCTTTGGC		1142
AGGAAGCGGA CCCCACCAGC AACACCTACA CCCTTGTCAC		1192
CTCCTATGAT GGCCTGGTGG TTTAATCAGA TCATGCCCAA		1242
CTGATAATCG TCTTGGGCAT GATTGCAATG GAGGGCAAAT	GCGTCCCTGA	1292
GGAGAAAATC TGGGAGGAGC TGGGTGTGAT GAAGGTGTAT		1342
AGCACAGTGT CTGTGGGGAG CCCAGGAAGC TGCTCACCCA		1392
CAGGAAAACT ACCTGGAGTA CCGCAGGTGC CCAGCAGTGA		1442
TATGAGTTAC TGTGGGGTCC AAGGGCACTC GCTGCTTGAA		1492
CACGTGGTCA GGGTCAATGC AAGAGTTCTC ATTTCCTACC		1542
TGAAGCAGCT TTGAGAGAGG AGGAAGAGGG AGTCTGAGCA		1592
CCAGGGCCAC TGCGAGGGGG GCTGGGCCAG TGCACCTTCC		1642
CCAGTAGTTT CCCCTGCCTT AATGTGACAT GAGGCCCATT		1692
TGAAGAGAGC AGTCAACATT CTTAGTAGTG GGTTTCTGTT		1742
ACTTTGAGAT TTGTCTTTGT TTCCTTTTGG AATTGTTCAA		1792
TAATGGGTGG TTGAATGAAC TTCAGCATTC AAATTTATGA		1842
TCACACATAG TGCTGTTTAT ATAGTTTAGG AGTAAGAGTC	TTGTTTTTA	1892

TTCAGATTGG	GAAATCCATT	CCATTTTGTG	AATTGGGACA	TAGTTACAGC	1942
AGTGGAATAA	GTATTCATTT	AGAAATGTGA	ATGAGCAGTA	AAACTGATGA	1992
GATAAAGAAA	TTAAAAGATA	TTTAATTCTT	GCCTTATACT	CAGTCTATTC	2042
GGTAAAATTT	TTTTTTAAAA	ATGTGCATAC	CTGGATTTCC	TTGGCTTCTT	2092
TGAGAATGTA	AGACAAATTA	AATCTGAATA	AATCATTCTC	CCTGTTCACT	2142
GGCTCATTTA	TTCTCTATGC	ACTGAGCATT	TGCTCTGTGG	AAGGCCCTGG	2192
GTTAATAGTG	GAGATGCTAA	GGTAAGCCAG	ACTCACCCCT	ACCCACAGGG	2242
TAGTAAAGTC	TAGGAGCAGC	AGTCATATAA	TTAAGGTGGA	GAGATGCCCT	2292
CTAAGATGTA	GAG				2305

- (2) INFORMATION FOR SEQUENCE ID NO: 18:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 225 base pairs
    - (B) TYPE: nucleic acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-6 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

TAT	TTC	TTT	CCT	GTG	ATC	TTC	AGC	AAA	GCT	TCC	GAT	TCC	TTG	42
CAG	CTG	GTC	TTT	GGC	ATC	GAG	CTG	ATG	GAA	GTG	GAC	CCC	ATC	84
GGC	CAC	GTG	TAC	ATC	TTT	GCC	ACC	TGC	CTG	GGC	CTC	TCC	TAC	126
GAT	GGC	CTG	CTG	GGT	GAC	AAT	CAG	ATC	ATG	CCC	AGG	ACA	GGC	168
TTC	CTG	ATA	ATC	ATC	CTG	GCC	ATA	ATC	GCA	AGA	GAG	GGC	GAC	210
TGT	GCC	CCT	GAG	GAG										225

- (2) INFORMATION FOR SEQUENCE ID NO: 19:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1947 base pairs
    - (B) TYPE: nucleic acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
  - (A) NAME/KEY: MAGE-7 gene (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

TGAATGGACA ACAAG	GGCCC CACACTCC	CC AGAACACAAG	GGACTCCAGA	50
GAGCCCAGCC TCACC	CTTCCC TACTGTCA	GT CCTGCAGCCT	CAGCCTCTGC	100
TGGCCGGCTG TACCC	CTGAGG TGCCCTCT	CA CTTCCTCCTT	CAGGTTCTCA	150
GCGGACAGGC CGGCC	CAGGAG GTCAGAAG	CC CCAGGAGGCC	CCAGAGGAGC	200
ACCGAAGGAG AAGAT	CTGTA AGTAGGCC	TT TGTTAGGGCC	TCCAGGGCGT	250
GGTTCACAAA TGAGG	SCCCCT CACAAGCT	CC TTCTCTCCCC	AGATCTGTGG	300
GTTCCTCCCC ATCGC	CCAGC TGCTGCCC	GC ACTCCAGCCT	GCTGCCCTGA	350

CCAGAGTCAT CATGTCTTCT GAGCAGAGGA GTCAGCACTG CAAGG	CCTGAG 400
GATGCCTTGA GGCCCAAGGA CAGGAGGCTC TGGGCCTGGT GGGTC	GCGCAG 450
GCTCCCGCCA CCGAGGAGCA CGAGGCTGCC TCCTCCTTCA CTCTC	GATTGA 500
AGGCACCCTG GAGGAGGTGC CTGCTGCTGG GTCCCCCAGT CCTCC	
GTCTCAGGGT TCCTCCTTTT CCCTGACCAT CAGCAACAAC ACTC	TATGGA 600
GCCAATCCAG TGAGGGCACC AGCAGCCGGG AAGAGGAGGG GCCAA	ACCACC 650
TAGACACCC CCGCTCACCT GGCGTCCTTG TTCCA	685
ATG GGA AGG TGG CTG AGT TGG TTC GCT TCC TGC TGC A	ACA AGT 727
ATC GAG TCA AGG AGC TGG TCA CAA AGG CAG AAA TGC	TGG ACA 769
GTG TCA TCA AAA ATT ACA AGC ACT AGT TTC CTT GTG A	ATC TAT 811
GGC AAA GCC TCA GAG TGC ATG CAG GTG ATG TTT GGC A	ATT GAC 853
ATG AAG GAA GTG GAC CCC GCG GCC ACT CCT ACG TCC	TTG TCA 895
CCT GCT TGG GCC TCT CCT ACA ATG GCC TGC TGG GTG A	ATG ATC 937
AGA GCA TGC CCG AGA CCG GCC TTC TGA	964
TTATGGTCTT GACCATGATC TTAATGGAGG GCCACTGTGC CCCTC	GAGGAG 1014
GCAATCTGGG AAGCGTTGAG TGTAATGGTG TATGATGGGA TGGAC	GCAGTT 1064
TCTTTGGGCA GCTGAGGAAG CTGCTCACCC AAGATTGGGT GCAG	GAAAAC 1114
TACCTGCAAT ACCGCCAGGT GCCCAGCAGT GATCCCCCGT GCTAC	CCAGTT 1164
CCTGTGGGGT CCAAGGGCCC TCATTGAAAC CAGCTATGTG AAAGT	TCCTGG 1214
AGTATGCAGC CAGGGTCAGT ACTAAAGAGA GCATTTCCTA CCCAT	TCCCTG 1264
CATGAAGAGG CTTTGGGAGA GGAGGAAGAG GGAGTCTGAG CAGAA	AGTTGC 1314
AGCCAGGGCC AGTGGGGCAG ATTGGGGGAG GGCCTGGGCA GTGCA	ACGTTC 1364
CACACATCCA CCACCTTCCC TGTCCTGTTA CATGAGGCCC ATTCT	TTCACT 1414
CTGTGTTTGA AGAGAGCAGT CAATGTTCTC AGTAGCGGGG AGTGT	TGTTGG 1464
GTGTGAGGGA ATACAAGGTG GACCATCTCT CAGTTCCTGT TCTCT	TTGGGC 1514
GATTTGGAGG TTTATCTTTG TTTCCTTTTG CAGTCGTTCA AATG	TTCCTT 1564
TTAATGGATG GTGTAATGAA CTTCAACATT CATTTCATGT ATGAC	CAGTAG 1614
GCAGACTTAC TGTTTTTAT ATAGTTAAAA GTAAGTGCAT TGTTT	TTTTAT 1664
TTATGTAAGA AAATCTATGT TATTTCTTGA ATTGGGACAA CATAA	ACATAG 1714
CAGAGGATTA AGTACCTTTT ATAATGTGAA AGAACAAAGC GGTAA	AAATGG 1764
GTGAGATAAA GAAATAAAGA AATTAAATTG GCTGGGCACG GTGGC	CTCACG 1814
CCTGTAATCC CAGCACTTTA GGAGGCAGAG GCACGGGGAT CACGA	AGGTCA 1864
GGAGATCGAG ACCATTCTGG CTAACACAGT GAAACACCAT CTCTA	ATTAAA 1914
AATACAAAAC TTAGCCGGGC GTGGTGGCGG GTG	1947

- (2) INFORMATION FOR SEQUENCE ID NO: 20:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1810 base pairs
    - (B) TYPE: nucleic acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-8 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GAGCTCCAGG	AACCAGGCTG	TGAGGTCTTG	GTCTGAGGCA	GTATCTTCAA	50
TCACAGAGCA	TAAGAGGCCC	AGGCAGTAGT	AGCAGTCAAG	CTGAGGTGGT	100
GTTTCCCCTG	TATGTATACC	AGAGGCCCCT	CTGGCATCAG	AACAGCAGGA	150
ACCCCACAGT	TCCTGGCCCT	ACCAGCCCTT	TTGTCAGTCC	TGGAGCCTTG	200

GCCTTTGCCA GGAGGCTGCA CCCTGAGATG CCCTCTCAAT TTCTCCTTCA	250
GGTTCGCAGA GAACAGGCCA GCCAGGAGGT CAGGAGGCCC CAGAGAAGCA	300
CTGAAGAAGA CCTGTAAGTA GACCTTTGTT AGGGCATCCA GGGTGTAGTA	350
CCCAGCTGAG GCCTCTCACA CGCTTCCTCT CTCCCCAGGC CTGTGGGTCT	400
CAATTGCCCA GCTCCGGCCC ACACTCTCCT GCTGCCCTGA CCTGAGTCAT	450
	451
ATG CTT CTT GGG CAG AAG AGT CAG CGC TAC AAG GCT GAG GAA	493
GGC CTT CAG GCC CAA GGA GAG GCA CCA GGG CTT ATG GAT GTG	535
CAG ATT CCC ACA GCT GAG GAG CAG AAG GCT GCA TCC TCC	577
TCT ACT CTG ATC ATG GGA ACC CTT GAG GAG GTG ACT GAT TCT	619
GGG TCA CCA AGT CCT CCC CAG AGT CCT GAG GGT GCC TCC TCT	661
TCC CTG ACT GTC ACC GAC AGC ACT CTG TGG AGC CAA TCC GAT	703
GAG GGT TCC AGC AGC AAT GAA GAG GAG GGG CCA AGC ACC TCC	745
CCG GAC CCA GCT CAC CTG GAG TCC CTG TTC CGG GAA GCA CTT	787
GAT GAG AAA GTG GCT GAG TTA GTT CGT TTC CTG CTC CGC AAA	829
TAT CAA ATT AAG GAG CCG GTC ACA AAG GCA GAA ATG CTT GAG	871
AGT GTC ATC AAA AAT TAC AAG AAC CAC TTT CCT GAT ATC TTC	913
AGC AAA GCC TCT GAG TGC ATG CAG GTG ATC TTT GGC ATT GAT	955
GTG AAG GAA GTG GAC CCT GCC GGC CAC TCC TAC ATC CTT GTC	997
ACC TGC CTG GGC CTC TCC TAT GAT GGC CTG CTG GGT GAT GAT	L039
	1081
ATG ATC TTA ATG GAG GGC AGC CGC GCC CCG GAG GAG GCA ATC	L123
TGG GAA GCA TTG AGT GTG ATG GGG GCT GTA TGA	L156
TGGGAGGGAG CACAGTGTCT ATTGGAAGCT CAGGAAGCTG CTCACCCAAG 1	L206
	L256
	L306
	L356
	1406
TGAGCAGGAG TTGCAGCTAG GGCCAGTGGG GCAGGTTGTG GGAGGGCCTG 1	L456
	L506
ATGAGGCCCA TTCTTCACTC TGTGTTTGAA GAGAGCAGTC ACAGTTCTCA 1	L556
	L606
	L656
	L706
	L756
	1806
ATTC 1	1810

- (2) INFORMATION FOR SEQUENCE ID NO: 21:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1412 base pairs
    - (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-9 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

AGCAGTGAAG GTGAAG	GTGTT CACCC	TGAAT GTGCACCAAG	GGCCCCACCT	100
GCCCCAGCAC ACATGO	GGACC CCATA	GCACC TGGCCCCATT	' CCCCCTACTG	150
TCACTCATAG AGCCTT	TGATC TCTGC	AGGCT AGCTGCACGC	TGAGTAGCCC	200
TCTCACTTCC TCCCTC	CAGGT TCTCG	GGACA GGCTAACCAG	GAGGACAGGA	250
GCCCCAAGAG GCCCCA	AGAGC AGCAC	TGACG AAGACCTGTA	AGTCAGCCTT	300
TGTTAGAACC TCCAAC				350
CTCTCTCCCC AGGCCT	TGTGG GTCTC	CATCG CCCAGCTCCT	' GCCCACGCTC	400
CTGACTGCTG CCCTGA				427
ATG TCT CTC GAG C	CAG AGG AGT	CCG CAC TGC AAG	CCT GAT GAA	469
GAC CTT GAA GCC C				511
CAG GAA CCC ACA G				553
GAC AGC AAG GAG				595
CCT CCC CAG AGT C				
		CAA TTC GAT GAG		679
AGT CAA GAA GAG				721
CAG CTG GAG TTC A		GAA GCA CTG AAA		763
		CTC CAC AAA TAT		805
GAG CCG GTC ACA A				847
			AAA GCC TCC	. 889
		GGC ACT GAT GTG		931
GAC CCC GCC GGC C				973
CTC TCG TGC GAT A				1015
AAG GCC GCC CTC C				1057
AAA GAC AAC TGC G				1099
AGT GTG ATG GGG G	GTG TAT GTT	GGG AAG GAG CAC	ATG TTC TAC	1141
GGG GAG CCC AGG A				1183
AAC TAC CTG GAG T		GTG CCC GGC AGT		1225
		TCC AAG GCC CAC		1267
		TAT TTG GTC ATG		1309
AGA GAG CCC ATC T			GAG GTT TTG	1351
GGA GAG GAG CAA				1375
GCACCAGCCG CAGCCG	GGGC CAAAG'	TTTGT GGGGTCA		1412

#### (2) INFORMATION FOR SEQUENCE ID NO: 22:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 920 base pairs
  - (B) TYPE: nucleic acid (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: genomic DNA
- (ix) FEATURE:
  - (A) NAME/KEY: MAGE-10 gene
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

ACCTGCTCCA	GGACAAAGTG	GACCCCACTG	CATCAGCTCC	ACCTACCCTA	50
CTGTCAGTCC	TGGAGCCTTG	GCCTCTGCCG	GCTGCATCCT	GAGGAGCCAT	100
CTCTCACTTC	CTTCTTCAGG	TTCTCAGGGG	ACAGGGAGAG	CAAGAGGTCA	150
AGAGCTGTGG	GACACCACAG	AGCAGCACTG	AAGGAGAAGA	CCTGTAAGTT	200
GGCCTTTGTT	AGAACCTCCA	GGGTGTGGTT	CTCAGCTGTG	GCCACTTACA	250
CCCTCCCTCT	CTCCCCAGGC	CTGTGGGTCC	CCATCGCCCA	AGTCCTGCCC	300

ACA	CTCC	CAC	CTGC:	racc(	CT GA	ATCA	GAGT(	CATO	2					333
ATG	CCT	CGA	GCT	CCA	AAG	CGT	CAG	CGC	TGC	ATG	CCT	GAA	GAA	375
GAT	CTT	CAA	TCC	CAA	AGT	GAG	ACA	CAG	GGC	CTC	GAG	GGT	GCA	417
CAG	GCT	CCC	CTG	GCT	GTG	GAG	GAG	GAT	GCT	TCA	TCA	TCC	ACT	459
TCC	ACC	AGC	TCC	TCT	TTT	CCA	TCC	TCT	TTT	CCC	TCC	TCC	TCC	501
TCT	TCC	TCC	TCC	TCC	TCC	TGC	TAT	CCT	CTA	ATA	CCA	AGC	ACC	543
CCA	GAG	GAG	GTT	TCT	GCT	GAT	GAT	GAG	ACA	CCA	AAT	CCT	CCC	585
CAG	AGT	GCT	CAG	ATA	GCC	TGC	TCC	TCC	CCC	TCG	GTC	GTT	GCT	627
TCC	CTT	CCA	TTA	GAT	CAA	TCT	GAT	GAG	GGC	TCC	AGC	AGC	CAA	669
AAG	GAG	GAG	AGT	CCA	AGC	ACC	CTA	CAG	GTC	CTG	CCA	GAC	AGT	711
GAG	TCT	TTA	CCC	AGA	AGT	GAG	ATA	GAT	GAA	AAG	GTG	ACT	GAT	753
TTG	GTG	CAG	TTT	CTG	CTC	TTC	AAG	TAT	CAA	ATG	AAG	GAG	CCG	795
ATC	ACA	AAG	GCA	GAA	ATA	CTG	GAG	AGT	GTC	ATA	AAA	AAT	TAT	837
GAA	GAC	CAC	TTC	CCT	TTG	TTG	TTT	AGT	GAA	GCC	TCC	GAG	TGC	879
ATG	CTG	CTG	GTC	TTT	GGC	ATT	GAT	GTA	AAG	GAA	GTG	GAT	CC	920

- (2) INFORMATION FOR SEQUENCE ID NO: 23:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1107 base pairs
    - (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-11 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

AGAGAACAGG CO	CAACCTGGA	GGACAGGAG'	r cccaggagaa	CCCAGAGGAT	50
CACTGGAGGA G	AACAAGTGT	AAGTAGGCC'	TTGTTAGATT	CTCCATGGTT	100
CATATCTCAT C'	TGAGTCTGT	TCTCACGCT	CCTCTCTCCC	CAGGCTGTGG	150
GGCCCCATCA CO	CCAGATATT	TCCCACAGT	r cggcctgctg	ACCTAACCAG	200
AGTCATCATG CO	CTCTTGAGC	AAAGAAGTC	A GCACTGCAAG	CCTGAGGAAG	250
CCTTCAGGCC C	AAGAAGAAG	ACCTGGGCC	r ggtgggtgca	CAGGCTCTCC	300
AAGCTGAGGA G	CAGGAGGCT	GCCTTCTTC:	CCTCTACTCT	GAATGTGGGC	350
ACTCTAGAGG A	GTTGCCTGC	TGCTGAGTC	A CCAAGTCCTC	CCCAGAGTCC	400
TCAGGAAGAG TO	CCTTCTCTC	CCACTGCCA:	r ggatgccatc	TTTGGGAGCC	450
TATCTGATGA GO	GGCTCTGGC	AGCCAAGAA	A AGGAGGGGCC	AAGTACCTCG	500
CCTGACCTGA T	AGACCCTGA	GTCCTTTTC	C CAAGATATAC	TACATGACAA	550
GATAATTGAT T	TGGTTCATT	TATTCTCCG	C AAGTATCGAG	TCAAGGGGCT	600
GATCACAAAG G	CAGAA				616
ATG CTG GGG	AGT GTC AT	C AAA AAT	TAT GAG GAC	TAC TTT CCT	658
GAG ATA TTT A	AGG GAA GC	C TCT GTA	TGC ATG CAA	CTG CTC TTT	700
GGC ATT GAT	GTG AAG GA	A GTG GAC	CCC ACT AGC	CAC TCC TAT	742
GTC CTT GTC A	ACC TCC CI	C AAC CTC	TCT TAT GAT	GGC ATA CAG	784
TGT AAT GAG	CAG AGC AT	G CCC AAG	TCT GGC CTC	CTG ATA ATA	826
GTC CTG GGT	GTA ATC TI	C ATG GAG	GGG AAC TGC	ATC CCT GAA	868
GAG GTT ATG	TGG GAA GI	C CTG AGC	ATT ATG GGG	GTG TAT GCT	910
GGA AGG GAG	CAC TTC CT	C TTT GGG	GAG CCC AAG	AGG CTC CTT	952
ACC CAA AAT	TGG GTG CA	G GAA AAG	TAC CTG GTG	TAC CGG CAG	994

GTG	CCC	GGC	ACT	GAT	CCT	GCA	TGC	TAT	GAG	TTC	CTG	TGG	GGT	1036
CCA	AGG	GCC	CAC	GCT	GAG	ACC	AGC	AAG	ATG	AAA	GTT	CTT	GAG	1078
TAC	ATA	GCC	AAT	GCC	AAT	GGG	AGG	GAT	CC					1107

- (2) INFORMATION FOR SEQUENCE ID NO: 24:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2150 base pairs
    - (B) TYPE: nucleic acid
  - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: smage-I
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

TCTGTCTGCA TATGCCT	CA CTTGTGTG	TA GCAGTCTCAA	ATGGATCTCT	50
CTCTACAGAC CTCTGTC	GT GTCTGGCA	CC CTAAGTGGCT	TTGCATGGGC	100
ACAGGTTTCT GCCCCTG	CAT GGAGCTTA	AA TAGATCTTTC	TCCACAGGCC	150
TATACCCCTG CATTGTA	GT TTAAGTGO	CT TTATGTGGAT	ACAGGTCTCT	200
GCCCTTGTAT GCAGGCC	AA GTTTTTCI	GT CTGCTTAACC	CCTCCAAGTG	250
AAGCTAGTGA AAGATCT	AC CCACTTT	GG AAGTCTGAAA	CTAGACTTTT	300
ATGCAGTGGC CTAACAAG	TTAATTTC	TT CCACAGGGTT	TGCAGAAAAG	350
AGCTTGATCC ACGAGTTC ATG TTC TCC TGG AAA	CAG AAGTCCTG	GT ATGTTCCTAG	AAAG	394
ATG TTC TCC TGG AA	GCT TCA AA	A GCC AGG TCT	CCA TTA AGT	436
CCA AGG TAT TCT CTA	CCT GGT AG	T ACA GAG GTA	CTT ACA GGT	478
TGT CAT TCT TAT CC	TCC AGA TI	CC CTG TCT GCC	AGC TCT TTT	520
ACT TCA GCC CTG AGG				565
AGT AAG ACC CGC TCC	CGT GCA AA	A CGA CAG CAG	TCA CGC AGG	604
GAG GTT CCA GTA GT	CAG CCC AC	CT GCA GAG GAA	GCA GGG TCT	646
TCT CCT GTT GAC CAG	AGT GCT GG	G TCC AGC TTC	CCT GGT GGT	688
TCT GCT CCT CAG GG	GTG AAA AC	CC CCT GGA TCT	TTT GGT GCA	730
GGT GTA TCC TGC ACA GCT GTC CTG CCT GAT GGG ACT TCC ATT CAG	GGC TCT GG	T ATA GGT GGT	AGA AAT GCT	772
GCT GTC CTG CCT GAT	ACA AAA AG	T TCA GAT GGC	ACC CAG GCA	814
				856
AAG GCT AGT GTG CTG	ATA GAA TI	CC CTG CTA GAT	AAA TTT AAG	898
ATG AAA GAA GCA GT				940
AAC AAG AAG TAT AAG				982
ACT TCT GCA CGC CTA				1024
GAA ATT GAT CCC AG				1066
CTG GGT CTT TCC ACT				1108
TTG CCT AGG ACA GG				1150
TTC ATG AAG GGT AAG				1192
TTT CTG CAT GGA GTG				1234
ATC TTT GGC GAG CC				1276
GAA AAT TAC CTG GAG				1314
CCA AGC TAT GAG TTO				1360
ACA ACC AAG ATG AA	GTC CTG GA	A GTT TTA GCT	AAA GTC AAT	1402
GGC ACA GTC CCT AG	GCC TTC CC	T AAT CTC TAC	CAG TTG GCT	1444
CTT AGA GAT CAG GCZ GGC AAG GGT GTT CA	A GGA GGG GI	G CCA AGA AGG	AGA GTT CAA	1486
GGC AAG GGT GTT CA	TCC AAG GC	C CCA TCC CAA	AAG TCC TCT	1528
AAC ATG TAG				1537
TTGAGTCTGT TCTGTTG	GT TTGAAAAA	CA GTCAGGCTCC	TAATCAGTAG	1587
GGC AAG GGT GTT CATA AAC ATG TAG TTGAGTCTGT TCTGTTGT AGAGTTCATA GCCTACCA ACATTAGTAG AATGGAGG	GA ACCAACAI	GC ATCCATTCTT	GGCCTGTTAT	1637
CTAAACAGTG CTTTTTG	CA TGCTTCTI	GT TAACTGCATA	AAGAGGTAAC	1737

TGTCACTTGT	CAGATTAGGA	CTTGTTTTGT	TATTTGCAAC	AAACTGGAAA	1787
ACATTATTTT	GTTTTTACTA	AAACATTGTG	TAACATTGCA	TTGGAGAAGG	1837
GATTGTCATG	GCAATGTGAT	ATCATACAGT	GGTGAAACAA	CAGTGAAGTG	1887
GGAAAGTTTA	TATTGTTAAT	TTTGAAAATT	TTATGAGTGT	GATTGCTGTA	1937
TACTTTTTTC	TTTTTTGTAT	AATGCTAAGT	GAAATAAAGT	TGGATTTGAT	1987
GACTTTACTC	AAATTCATTA	GAAAGTAAAT	CGTAAAACTC	TATTACTTTA	2037
TTATTTTCTT	CAATTATGAA	TTAAGCATTG	GTTATCTGGA	AGTTTCTCCA	2087
GTAGCACAGG	ATCTAGTATG	AAATGTATCT	AGTATAGGCA	CTGACAGTGA	2137
GTTATCAGAG	TCT				2150

- (2) INFORMATION FOR SEQUENCE ID NO: 25:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2099 base pairs
    - (B) TYPE: nucleic acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: smage-II
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

ACCTTATTGG	GTCTGTCTGC	ATATGCCTCC	ACTTGTGTGT	AGCAGTCTCA	50
AATGGATCTC	TCTCTACAGA	CCTCTGTCTG	TGTCTGGCAC	CCTAAGTGGC	100
TTTGCATGGG	CACAGGTTTC	TGCCCCTGCA	TGGAGCTTAA	ATAGATCTTT	150
CTCCACAGGC	CTATACCCCT	GCATTGTAAG	TTTAAGTGGC	TTTATGTGGA	200
TACAGGTCTC	TGCCCTTGTA	TGCAGGCCTA	AGTTTTTCTG	TCTGCTTAGC	250
CCCTCCAAGT	GAAGCTAGTG	AAAGATCTAA	CCCACTTTTG	GAAGTCTGAA	300
ACTAGACTTT	TATGCAGTGG	CCTAACAAGT	TTTAATTTCT	TCCACAGGGT	350
TTGCAGAAAA	GAGCTTGATC	CACGAGTTCG	GAAGTCCTGG	TATGTTCCTA	400
GAAAGATGTT	CTCCTGGAAA	GCTTCAAAAG	CCAGGTCTCC	ATTAAGTCCA	450
AGGTATTCTC	TACCTGGTAG	TACAGAGGTA	CTTACAGGTT	GTCATTCTTA	500
TCTTTCCAGA	TTCCTGTCTG	CCAGCTCTTT	TACTTCAGCC	CTGAGCACAG	550
TCAACATGCC	TAGGGGTCAA	AAGAGTAAGA	CCCGCTCCCG	TGCAAAACGA	600
CAGCAGTCAC	GCAGGGAGGT	TCCAGTAGTT	CAGCCCACTG	CAGAGGAAGC	650
AGGGTCTTCT	CCTGTTGACC	AGAGTGCTGG	GTCCAGCTTC	CCTGGTGGTT	700
CTGCTCCTCA	GGGTGTGAAA	ACCCCTGGAT	CTTTTGGTGC	AGGTGTATCC	750
TGCACAGGCT	CTGGTATAGG	TGGTAGAAAT	GCTGCTGTCC	TGCCTGATAC	800
AAAAAGTTCA	GATGGCACCC	AGGCAGGGAC	TTCCATTCAG	CACACACTGA	850
AAGATCCTAT	CATGAGGAAG	GCTAGTGTGC	TGATAGAATT	CCTGCTAGAT	900
AAGTTTAAGA	TGAAAGAAGC	AGTTACAAGG	AGTGAAATGC	TGGCAGTAGT	950
TAACAAGAAG	TATAAGGAGC	AATTCCCTGA	GATCCTCAGG	AGAACTTCTG	1000
CACGCCTAGA	ATTAGTCTTT	GGTCTTGAGT	TGAAGGAAAT	TGATCCCAGC	1050
ACTCATTCCT	ATTTGCTGGT	AGGCAAACTG	GGTCTTTCCA	CTGAGGGAAG	1100
TTTGAGTAGT	AACTGGGGGT	TGCCTAGGAC	AGGTCTCCTA	ATGTCTGTCC	1150
TAGGTGTGAT	CTTCATGAAG	GGTAACCGTG	CCACTGAGCA	AGAGGTCTGG	1200
CAATTTCTGC	ATGGAGTGGG	GGTATATGCT	GGGAAGAAGC	ACTTGATCTT	1250
TGGCGAGCCT	GAGGAGTTTA	TAAGAGATGT	AGTGCGGGAA	AATTACCTGG	1300
AGTACCGCCA	GGTACCTGGC	AGTGATCCCC	CAAGCTATGA	GTTCCTGTGG	1350
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AACAACCAAG		TGGAAGTTTT	1400
AGCTAAAGTC	AATGGCACAG	TCCCTAGTGC	CTTCCCTAAT	CTCTACCAGT	1450

	TGGCTCTTAG	AGATCAGGCA	GGAGGGGTGC	CAAGAAGGAG	AGTTCAAGGC	1500
	AAGGGTGTTC	ATTCCAAGGC	CCCATCCCAA	AAGTCCTCTA	ACATGTAGTT	1550
	GAGTCTGTTC	TGTTGTGTTT	GAAAAACAGT	CAGGCTCCTA	ATCAGTAGAG	1600
	AGTTCATAGC	CTACCAGAAC	CAACATGCAT	CCATTCTTGG	CCTGTTATAC	1650
	ATTAGTAGAA	TGGAGGCTAT	TTTTGTTACT	TTTCAAATGT	TTGTTTAACT	1700
	AAACAGTGCT	TTTTGCCATG	CTTCTTGTTA	ACTGCATAAA	GAGGTAACTG	1750
	TCACTTGTCA	GATTAGGACT	TGTTTTGTTA	TTTGCAACAA	ACTGGAAAAC	1800
	ATTATTTTGT	TTTTACTAAA	ACATTGTGTA	ACATTGCATT	GGAGAAGGGA	1850
	TTGTCATGGC	AATGTGATAT	CATACAGTGG	TGAAACAACA	GTGAAGTGGG	1900
	AAAGTTTATA	TTGTTAGTTT	TGAAAATTTT	ATGAGTGTGA	TTGCTGTATA	1950
	CTTTTTTCTT	TTTTGTATAA	TGCTAAGTGA	AATAAAGTTG	GATTTGATGA	2000
	CTTTACTCAA	ATTCATTAGA	AAGTAAATCA	TAAAACTCTA	TTACTTTATT	2050
	ATTTTCTTCA	ATTATTAATT	AAGCATTGGT	TATCTGGAAG	TTTCTCCAG	2099
_	$\sim$					

INFORMATION FOR SEQUENCE ID NO: 26:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 9 amino acids
  - amino acids
  - (B) TYPE: an (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

Glu Ala Asp Pro Thr Gly His Ser Tyr

576670.1